

nicam television set 16/9 format

Chassis code ICC17

28 inches

BLACK DIVA screen

SF-H tube

Mask INVAR

BLACK MATRIX processing

Navilight

Stereo sound

NICAM 2 x 20 W

Built-in teletext

Standard : PAL / SECAM

NTSC via SCART connector

Norms : PanEuro-LL'BGIDKK'



image

sound

special features

connectors /
general remarks



image

SF-H 28 inches tube - 16/9 format

BLACK DIVA screen

Mask INVAR

BLACK MATRIX processing for optimal contrast

S-VHS

Zoom function : adapts 4/3 transmissions to 16/9 format

Total tube size : 28 inches diagonal

Picture size : 26 inches diagonal

Standard : PAL / SECAM / NTSC via Vidéo connector

Norms : Pan-Euro LL'BGIDKK'

Videotext / Fasttext / Toptext : 6 pages



sound

Stereo sound NICAM L/BG(DKK')/I

Power : 2 x 20W music

4 speakers medium

Virtual Dolby / Spatial / Pseudo effects

Multi-lingual menu (14 languages)



special features

Automatically switches to standby mode
when no signal is present after 5 minutes

Child lock

Display of channel number

Hotel mode

Navilight system

Memorize up to 99 channels + 3 AV channel

AUTO PROGRAMMING

Frequency synthesis tuner

Compatible with cable networks

8 MHz hyperband

RCT 100 remote control



connectors / general remarks

1 antenna connector

Front or Side : Headphone jack (6,35 mm)

2 AUDIO in / 1 CVBS in / S-VIDEO in
cinches

Rear : 2 SCARTS connector S-VHS compatible

Power supply : 220 - 240V; 50/60 Hz

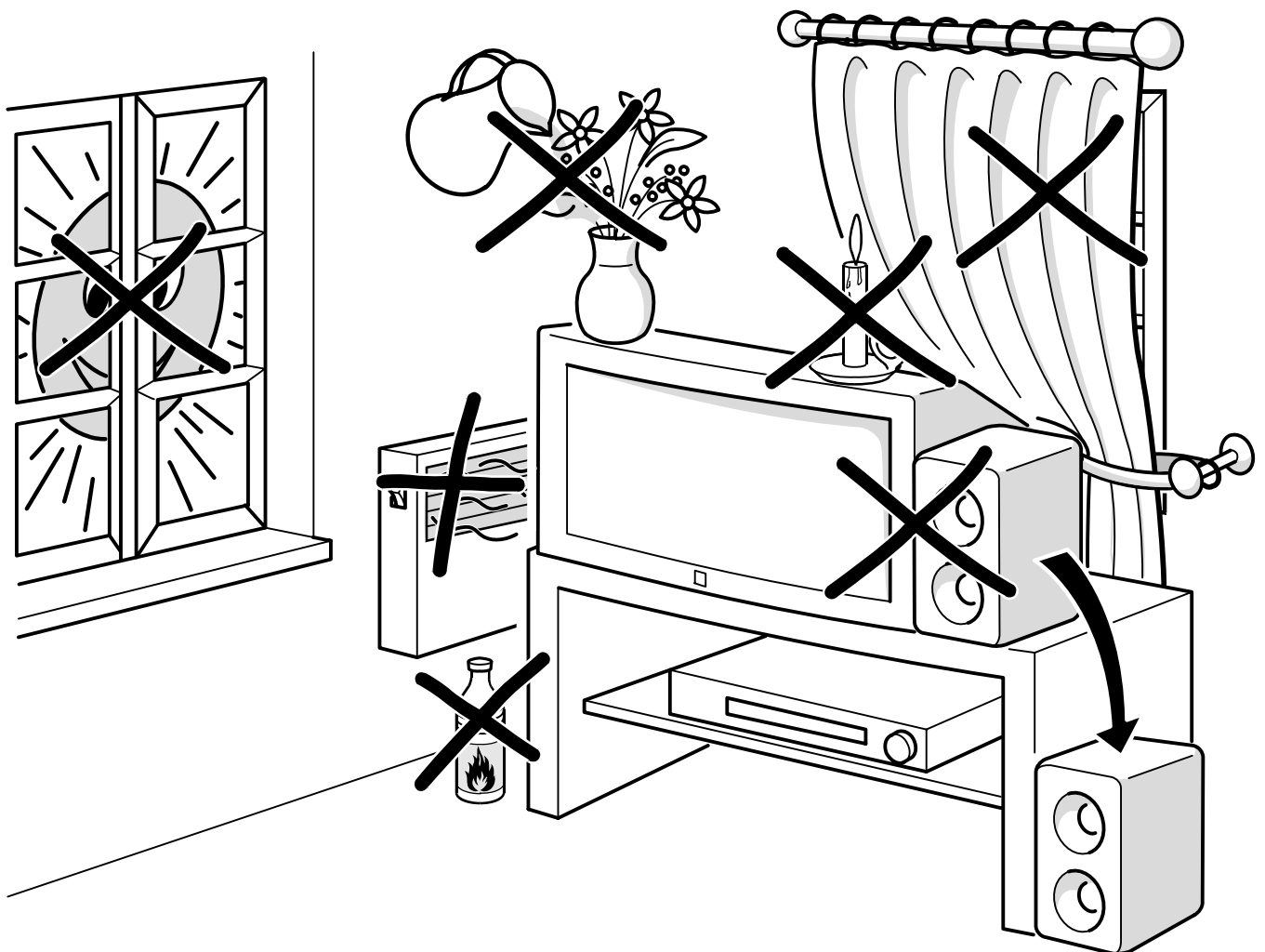
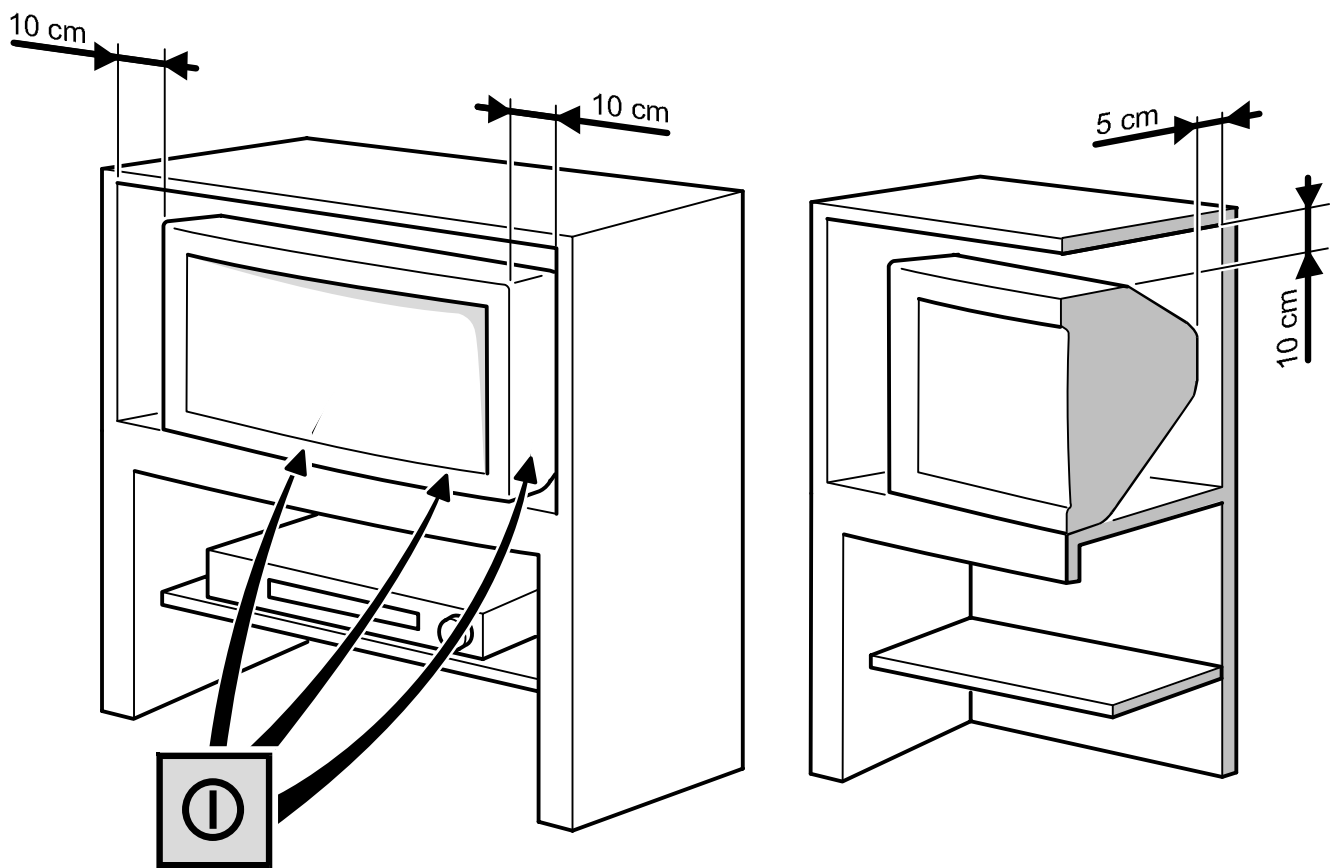
Consumption : 100 W/h - in stand-by mode < 1 W/h

Weight : 37 kg

Dimensions (W x H x D) : 713 x 485 x 491 mm

Optional stand : STTH2830





About this manual

This document is common to several television models. Therefore, certain functions or settings may not apply to the model you have purchased

About the switch

The position of the ON/OFF switch ① differs depending on the model. It may be located on the front or on the right-hand side of your set (see the drawing inside the cover page of your manual).

About safety

To ensure your own safety and safe operation of the equipment, observe the following instructions thoroughly.

TV sets require sufficient ventilation to prevent their components from overheating, which will cause failure. Do not block the ventilation openings at the rear. If you place your TV set in a special piece of furniture, make sure there is enough space for unhindered air circulation. Do not place the TV set in the close vicinity of a heater.

The TV set has been designed for use in dry rooms. Should you use it, in exceptional circumstances in the open air (example: on the balcony, in the veranda or tent), you must absolutely protect it against moisture (dew, rain, splash water). Before switching on a cold TV set in a warm room, you should wait until any condensation in the screen has dried by itself.

Maximum ambient temperature: 35°C

Maximum humidity: 85%

By the end of your TV evening or when away from home for a longer period, we recommend that you turn off the TV set with the On/Off-switch.

Even when the On/Off-switch is in the Off-position, your TV set is not fully disconnected from the mains. To disconnect the set completely, the mains plug must be pulled out.

The mains plug must be easily accessible.

In the following cases, we recommend that you pull out the mains connector:

1. During a thunderstorm. In such a case, it is advisable that you also disconnect the TV set from the aerial socket.
2. When odour or smoke emanates from the set.

Never attempt to open your TV set yourself.

Further information:

The TV set shielding is sufficient to prevent X-radiation to the exterior.

Any operation performed by a non skilled person, change of high voltage or replacement of the picture tube by a model not complying with the manufacturer specification are likely to cause considerable increase in X-radiation.

A TV set modified in such a way no longer complies with the manufacturers' specification and must not be used.

About cleaning

The screen is to be cleaned with liquid glass cleaners.

- Never use abrasive products.
- Clean the cabinet with a soft cloth soaked with neutral cleaner. Do not use solvents, such as white spirit or alcohol-based cleaning products since they may damage your television.
- At regular intervals, clean the ventilation grids at the rear of the TV set.

About degaussing

The terrestrial magnetic field may have an influence on your TV set. This influence is revealed by the coloured spots, which appear on the screen.

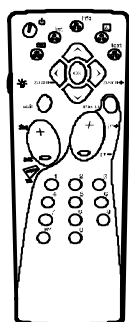
Should this be the case:

- Turn the equipment off by means of the On/Off-switch.
- Wait about one hour before switching the set on again.

This procedure performs automatic degaussing of the screen. Should there still be coloured spots on the screen, repeat the operation.

Contents

GB



Using the remote control
and fitting the batteries.

Page 4

How to call up a menu
and how to select a
function, a setting or an
option.



Page 5

Installation

About this manual	1
About the switch	1
About safety	1
About cleaning	1
About degaussing	1
Basic connections	3
Remote control	4
Navigation principles	5
Calling up the INSTALLATION MAIN MENU	5
Calling up the SUMMARY	5
Calling up a Menu	5
Navigating within the Menus	5
Installing your television for the first time	6
Automatic installation	7
Programme organisation	8
Manual programming	9
Personal settings	10
Preferences	11

Instructions for Use

Daily viewing	12
Picture Adjustment	12
Sound Settings	12
Time	13
List of Channels	14
Selecting Programmes	15
Scrolling the Programmes	15
Audio-visual (AV) Programmes	15
Volume Control	15
Muting the Sound	15
Zoom (16/9 models only)	15
Displaying Information	15
Television Lock	15
Switching Off the Television	15
Teletext	16
Standard Functions	16
Other Connections	17
Other Possibilities	17
Connecting a HiFi or AV amplifier	17

Basic connections

The mains plug (1) supplies power to the television. The television must only be plugged in to a 220-240 V - 50 Hz power supply. It must never be plugged in to a DC source. If the plug comes away from the lead, never attempt to plug it in: this could cause electrocution.

The aerial socket (2), located on the rear of the television, can be used to connect an external aerial or other appliance equipped with a modulator such as a VCR, satellite receiver, etc.

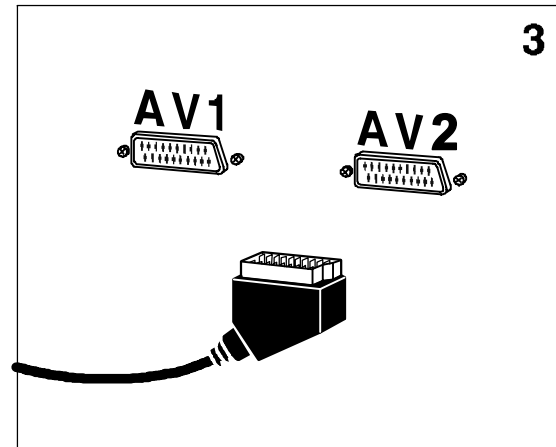
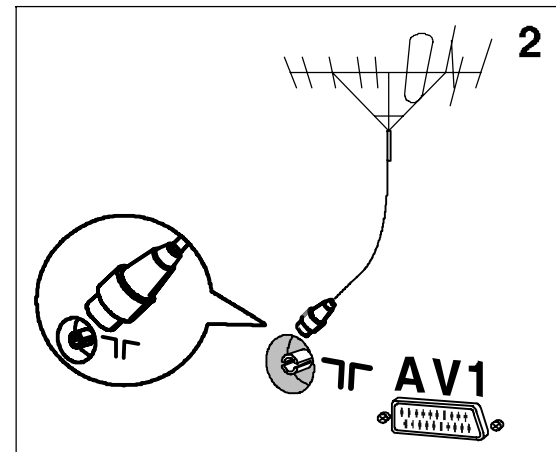
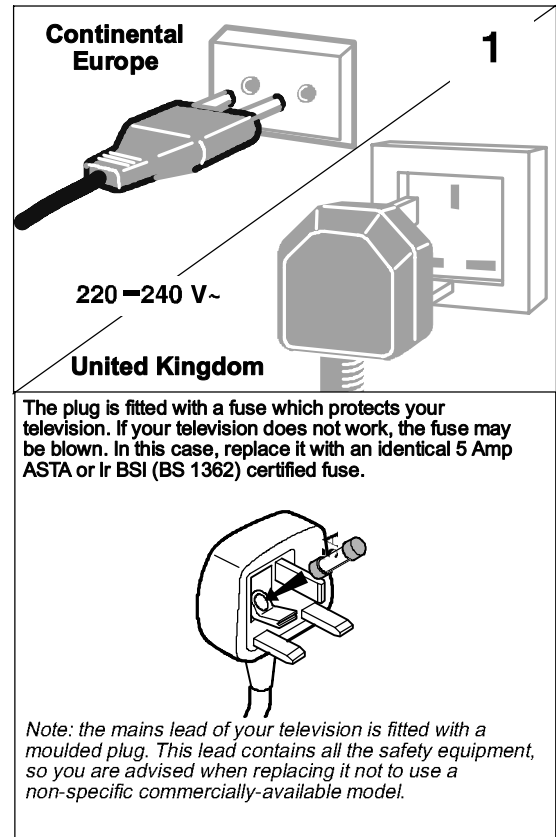
If you connect an appliance to the aerial jack, you must give it a channel number. To do this, switch on the appliance, then use the television to find the modulator channel (see the appliance manual). Now give it a programme number and memorise it (see Manual Programming of channels). Then, when you wish to use the appliance, simply select its programme number on the television. This procedure is not required for VCR's not equipped with a modulator.

The SCART socket AV1 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm), a Canal+ decoder, a video games console or RGB-signal emitting appliances.

The SCART socket AV2 (3), located on the rear of the television, is intended to connect a VCR or a camcorder (VHS, 8 mm, S-VHS or Hi-8).

We strongly recommend the use of this type of connection, which gives a better picture quality. To use the peripheral appliance that you have connected, press the AV key on your remote control (press once to select AV1; twice to select AV2; three times for AV3: see "Other Connections"). This selection is automatic for some appliances. Pressing "play" on a VCR, or switching on a satellite receiver connected to AV1 or AV2 will automatically switch on your television.

When you stop the VCR, if you have not changed channels while watching the VCR, the television automatically switches back to the channel you were watching beforehand. If the television has been switched on from the VCR, it switches to standby when the VCR is switched off. The television automatically switches to 16/9 format if the connected appliance delivers the corresponding signal.

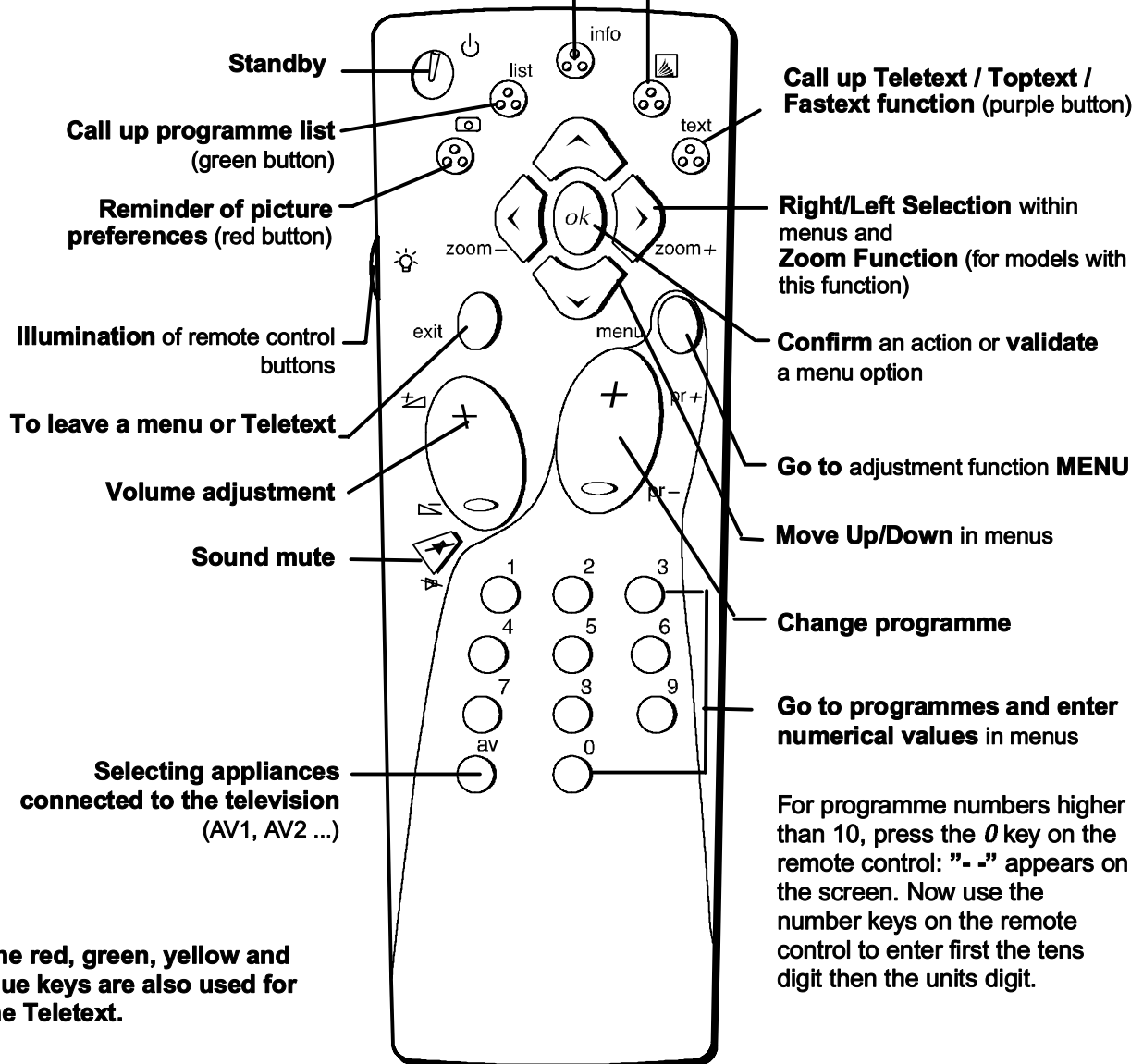


Remote control

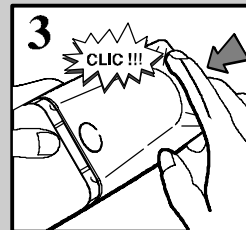
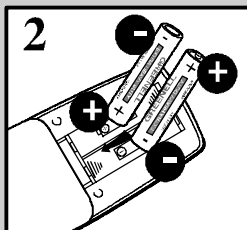
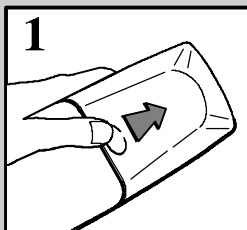
Display of channel, time, sound
(yellow button) (and zoom for models
with zoom)

**This key is active only when
using the Teletext (blue key)**

GB



The red, green, yellow and blue keys are also used for the Teletext.



Please respect the environment! Before throwing any batteries away, consult your distributor who may be able to take them back for specific recycling.

Navigation principles

Calling up the Installation main menu

If there is no menu displayed on the screen, press and hold the *menu* key on the remote control. The settings **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU** which you can use to operate your television.

INSTALLATION MAIN MENU	
Exit	
Manual programming	
▶ Auto installation	
Programme organisation	
Personal settings	

GB

Calling up the Settings summary

Press and release the *menu* key on the remote control to display the list of menus available for using your television functions or adjusting your television

SUMMARY	
Exit	
Teletext	
▶ Picture	
Sound	
List	
Time	
Preferences	

Calling up a Menu

Select the menu you wish using the **Up/Down** keys. Press the *ok* key to validate..

Navigating within the Menus

Use the **Up/Down** keys ① to select a line.

Use the **Left/Right** keys ② to:

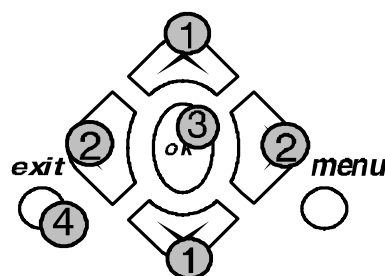
- Increase or decrease a value:
for example:
Fine tuning ◀|▶ 
- Select an option:
for example: Reception ◀|▶ Aerial
Reception ◀|▶ Cable
- Activate or deactivate an option:
for example: Decoder ☐ ⇌ ☒
- Access a sub-menu:
for example: Picture preferences|▶

You can use the *ok* ③ key to:

- Activate or deactivate an option:
for example: Decoder ☐ ⇌ ☒
- Access a sub-menu:
for example: Picture preferences|▶
- Validate an action:
for example: Store on PR number

Use the *exit* ④ key to exit a menu.

MANUAL PROGRAMMING	
Return	
Standard	EURO BG
Reception	Cable
Autosearch	◀ ▶ CH- -
Fine tuning	
Store on PR number	--
Name	----
Decoder	☒
External sound path	☐
Enter channel number or start autosearch with < or >.	



Installing your television for the first time

First plug the television into a mains power outlet and to the external aerial or a cable network, then switch on using the ON/OFF switch ① located on the front or the side of your set.

When you switch on your television for the first time, the language selection menu* is displayed (Fig. 1). If this does not happen, set the television to standby then press and hold the *pr* – key on the television until this menu appears.

Installation Instructions (start)

GB

1. Use the **Up/Down** keys to select the language in which you wish the menus to be displayed.
2. Then validate using *ok*.
3. A list of countries* is now displayed (Fig. 2). Select the country in which you live, or the country from which you wish to receive the broadcasts if you live in a border area.
4. Then validate using *ok*.
5. A welcome message is displayed.
6. Run the automatic installation sequence using *ok*.
7. A message appears to inform you that automatic installation has started (Fig. 3). Wait for a few minutes.
A new message will inform you when automatic installation is completed.
8. If you wish to check or modify the channel organisation, press *ok* and see the **Programme organisation** chapter.

If you do not wish to modify the channel organisation, you can exit the menu by pressing *exit* then watch the channel of your choice. Choose the desired channel using the number keys (1, 2, 3, ...) and the *pr + / pr –* keys.

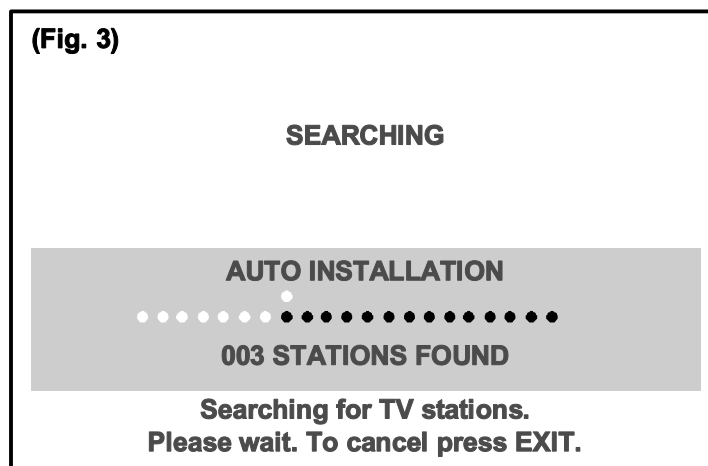
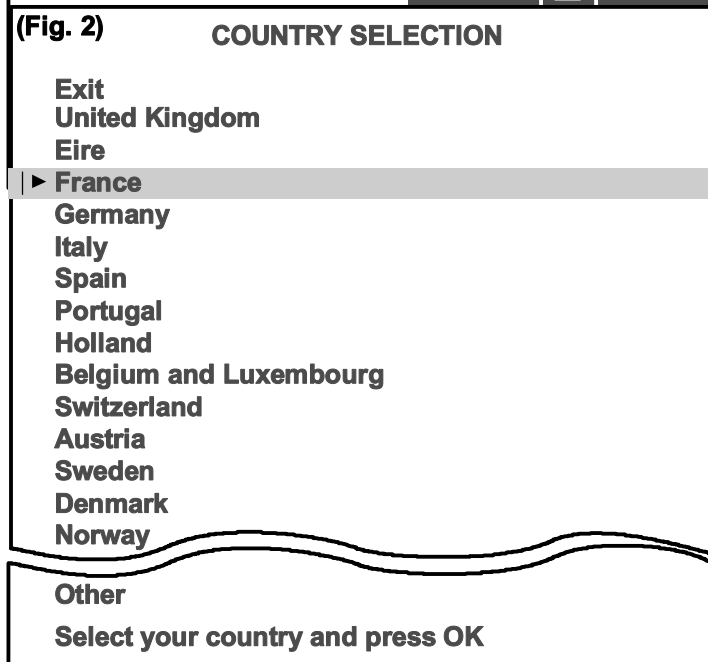
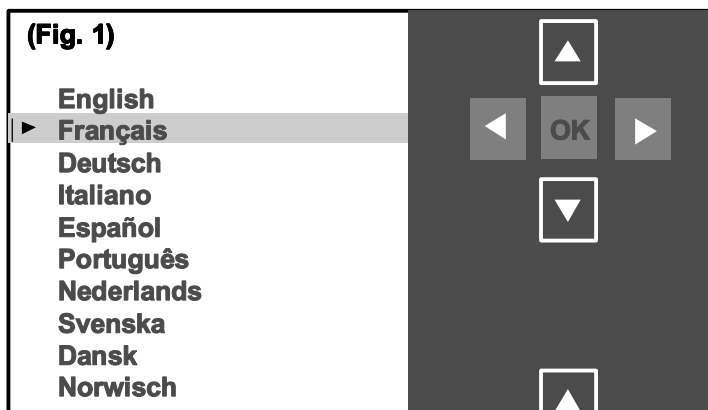
If you have a decoder, see the **Manual programming** chapter.

*Your television will only search for channels corresponding to the country you have selected. See the **Manual channel programming** chapter to install any channels not found.*

*For cable networks, read the **Automatic channel installation** chapter to install any channels not found.*

*The list of languages and countries may vary from one model to another.

Installation Instructions (end)



Automatic installation

The **Automatic installation** function is useful if you have to go through the installation procedure again, such as when moving house. This function deletes all previously memorised programmes. To install a new channel, you should use the **Manual programming** function.

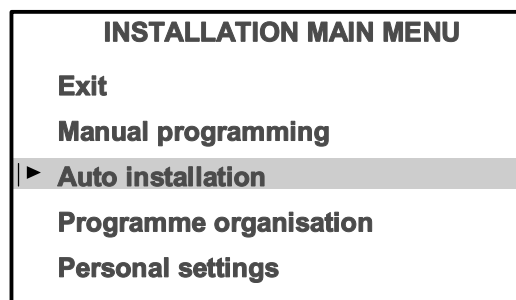
Before running **AUTO INSTALLATION**, check the **PERSONAL SETTINGS** menu to ensure that the country displayed is correct.



*Your television will only search for channels corresponding to the selected country, so see the **Manual programming** chapter to install any channels not found. For cable networks, if you have not found certain channels, select **Other** instead of a country name in the **PERSONAL SETTINGS** menu, then run automatic installation again.*

GB

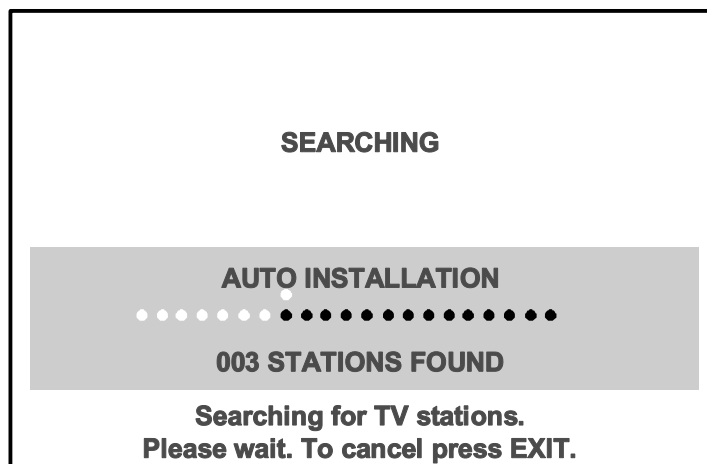
1. Press and hold the *menu* key on the remote control to display the **INSTALLATION MAIN MENU** (The **SUMMARY** appears first, followed by the **INSTALLATION MAIN MENU**).
2. Select the **Auto installation** line.
3. Validate using *ok*.



A message will inform you that **Automatic installation** has begun.
Wait for a few minutes.
A new message will inform you when **Automatic installation** is completed.

If you wish to check or reorganize your channel display, press the *ok* key and see the **Programme organisation** chapter.

If you do not wish to **reorganize your programmes**, you can exit this menu by pressing *exit*, then watch the programme of your choice. Choose the desired programme using the number keys (1, 2, 3, ...) and the *pr +* / *pr -* keys.



Programme organisation

During automatic installation, your television will search for the channel name and assign it a programme number according to the selected country. You can use the **PROGRAMME ORGANISATION** menu to name any channel name not found, to change the order in which the channels are displayed, or to delete channels for which reception is too poor. Follow the messages at the bottom of the screen. For further details, read the information below.



If you wish to access the **PROGRAMME ORGANISATION**, menu thereafter, first press and hold the **menu** key on the remote control to display the **INSTALLATION MAIN MENU** (the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**) then select **Programme organisation** and validate using **ok**.

GB

INSTALLATION MAIN MENU

Exit
Manual programming
Auto installation
► **Programme organisation**
Personal settings

- To delete a programme for which reception is too poor:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys to list your channels.
3. When you get to a channel you wish to delete, select the line marked **Delete program**.
4. Press **ok** to delete the programme.
5. Validate using **ok**.

- To organize your channels to suit you:

1. Select the line marked **Select program**.
2. Use the **pr + / pr -** or **Left/Right** keys and the programmes logos to find the programme to which you wish to give the No.1. Its present number appears on the line marked **Select program**.
3. Select the line marked **Swap with PR**.
4. Enter **01**.
5. Press **ok**. The two programmes swap position and the desired programme becomes N°1.
6. Repeat the above procedure for the other channels.

- To name your channels:

1. Select the line marked **Change pr. name**
2. Select the character you wish to modify using the **Left/Right** keys.
3. Use the **1** and **2** keys to display the letter you require.
The name you have entered will be memorised when you move to another line or exit the menu.



If you wish to change the order in which your programmes are displayed or if you wish to name other programmes, repeat the procedures described above.

When you have finished organizing the programmes, exit the menu using **exit**.

PROGRAMME ORGANISATION

Return

Select program.	◀▶ 13
Swap with PR.	--
Change pr. name	EURO
Delete program.	13

10	MTV
11	FR2
12	TF1
13	EURO
14	CH40
15	CC01
16	ARTE
17	CART
18	----
19	ARD

Select programme number using **PR-/PR+** or **</>** or **0 to 9** keys.

Select the line marked **Return** to return to the previous menu.

Personal settings

1. Press and hold the *menu* key: the **SUMMARY** is displayed first, followed by the **INSTALLATION MAIN MENU**.
2. Select the line marked **Personal settings**.
3. Display the menu using *ok*.
4. Continue by following the messages at the bottom of the screen.

For further details, read the information below.

Menu language :

Select the language in which the menus are to be displayed.

Country :

Indicate the country in which you are if you wish to rerun **Automatic Programming**.



*For cable networks, if certain channels have not been found, select **Other** instead of the country name before running automatic installation again.*

You may find that the characters of certain teletext languages are inaccessible for the selected country.

Auto volume level :

This is a sound control function which aims to equalise the volume level between different channels, and between different programmes on the same channel.

Activate or deactivate the auto volume level as required.



*On models equipped with Virtual Dolby Surround, this function remains inactive if **Dolby Virtual** has been selected in the **SOUND** menu (see **Volume Control**).*

AV1, AV2, AV3 name :

Use these to give a name to each of your audio-visual programmes. Select the character you wish to modify using the **Left/Right** keys. Use the **1** or **2** keys to display the desired character.

Prog. to be used for reference time :

To display the time using the *info* key or to use the alarm function, the television clock must be set to the correct time. Select the line marked **Prog. to be used for reference time** and select a channel which broadcasts teletext. The time is set automatically and is displayed after the channel number.

Exit the menu using *exit*.

INSTALLATION MAIN MENU

Exit

Manual programming

Auto installation

Programme organisation

► **Personal settings**

PERSONAL SETTINGS

Return

Menu language English

Country UK

Auto volume level ☒

AV1 name VCR

AV2 name ----

AV3 name CAMC

Prog. to be used for reference time <|> 06

13:15

Select a station from which you want to get the reference time.

Select the line marked **Return** to return to the previous menu.

Preferences

1. Display the **SUMMARY** by pressing and releasing the *menu* key on the remote control .
2. Select the line marked **Preferences**.
3. Display the menu using *ok* .

 *Make your choice from the proposed options. Use the information below to help you.*

Show program. number :

If you wish to permanently display the number of the programme you are watching, tick the box using the **Left/Right** keys. Press the **Left/Right** keys again to deactivate this function.

PREFERENCES	
Return	
Show program. number	< > ☒
AV2 video input	Video
AV3 video input	S-Video
Format control	Auto
Picture preferences	

AV2 video input :

Use the **Left/Right** keys to select the type of video signal received at the AV2 SCART socket (Video or S-Video).

AV3 video input :

Use the **Left/Right** keys to select the type of video signal received at the AV3 sockets (these sockets are located on the front or the side of the television).

Format control :

Use the **Left/Right** keys to select the desired picture format:

Auto : if the transmitter (for 16/9 format TV's) or the appliance connected to one of the peripheral jacks delivers the switching signal, the television automatically adapts to the transmitted picture format.

16/9 : manually selects widescreen picture format.

4/3 : manually selects this picture format.

 *If you have selected **16/9** or **4/3**, the television will switch back to **Auto** when you change channels or you switch off.*

Picture preferences :

To access the **PICTURE PREFERENCES** menu, press *ok* .

 *If you wish, you can personalize certain picture settings. Select and set the proposed options. Use the information below to help you.*

Settings :

Select **Standard** or **Personal**.

Standard corresponds to the factory settings.

Personal corresponds to the settings that you have entered yourself.

 *The lines **Brightness**, **Colour** and **Contrast** are displayed only if you have selected **Personal** on the **Settings** line.*

Select each line one after the other and enter your required settings. You can recall these picture settings by pressing the red key on the remote control.

Exit the menu using *exit* .

PICTURE PREFERENCES	
Return	
Settings	< > Personal
Brightness	██
Colour	██
Contrast	██

Select the line marked **Return** to return to the previous menu.

Daily viewing

Picture Adjustment

Display the **SUMMARY** using the *menu* key on the remote control. Select **Picture**. Validate using *ok*. The **PICTURE** menu is displayed.



Select and set the proposed options. Use the information below to help you.

Brightness, Colour, Contrast, Sharpness:
Select each of these lines one after the other and set as required.

Contrast expand :

Select this line then choose the desired Contrast expand setting (High or Low).

Tone :

Select this line then choose the desired colour tone (Warm, Neutral or Cold).

Exit the menu using *exit*.

PICTURE	
Return	
Brightness	
Colour	
Contrast	
Sharpness	
Contrast expand	Neutral
Tone	Cold

Select the line marked **Return** to return to the previous menu.

Sound Settings

Display the **SUMMARY** using the *menu* key on the remote control. Select the line marked **Sound**. Validate using *ok*. The **SOUND** menu is displayed.



Select and set the proposed options. Use the information below to help you.

Sound type :

The choices available to you depend on your television model and the broadcast. Stereo, Dual or NICAM reception and the corresponding choices are only available on Stereo or NICAM Stereo televisions.

Select this line, then select the type of sound you desire.

Sound mode :

Select this line, then choose the desired mode using the *Left/Right* keys.

The choices available to you depend on your television model and the type of sound. **Magic** and **Dolby Virtual** modes are only available in stereo on TV's equipped with Virtual Dolby Surround.



Stereo wide is only available on Stereo or Nicam televisions not equipped with Virtual Dolby Surround.

Balance L/R :

Select this line, then balance the sound between the Left and Right loudspeakers.

Treble, Bass :

Select each of these lines and adjust to suit you.

Surround effect :



This line appears only if you have selected **Dolby Virtual** on the **Sound mode** line.

Select this line and adjust the surround effect to suit you.

Exit the menu using *exit*.

SOUND	
Return	
Sound type	Automatic
Sound mode	Normal
Balance L/R	
Treble	
Bass	
Surround effect	

Broadcast	Choice
mono	automatic - mono
stereo	mono - stereo
dual	sound 1 - sound 2
NICAM-3	sound 1 - sound 2 - sound 3
AV	stereo - sound 1 - sound 2

Mode

Normal :

reproduces the original sound (mono or stereo).

Wide :

gives a stereo effect on mono sounds.

Stereo wide :

accentuates the stereo effect.

Magic :

accentuates the stereo effects and adds echo.

Dolby Virtual : Virtual Dolby Surround.

Virtual Surround Dolby is based on Dolby Pro Logic decoding for the reproduction of the Left, Right, Centre and Virtual Surround sound channels using two loudspeakers.

"Dolby", "Pro Logic" and the double -D symbol are trademarks of the Dolby Laboratories Licensing Corporation.

Manufactured under licence from Dolby Laboratories Licensing Corporation.

Effect

Daily viewing

Time



You can use this menu to switch your television on or off automatically at a set time.

Display the **SUMMARY** using the *menu* key on the remote control. Select the line marked **Time**. Validate using *ok*. The **TIME** menu is displayed.

Sleep timer :

Use the **Left/Right** keys to choose how long you wish to view before the television switches off. The television will switch off automatically at the end of this period. To cancel, set to **00:00**.

One minute before switching off, a message will inform you that the television is about to go off. If you wish to keep it on, press any key on the remote control or the local keyboard.

The television switches to Child lock mode after an automatic stop. It can only be switched on again from the remote control.

Current time :

The current time is given by the Teletext (see **PERSONAL SETTINGS** menu). You can also set the time manually using the number keys (0 to 9) on your remote control.

Wake-up timer :



If you wish to be woken up by your television on the channel of your choice, you must first set the television clock to the correct time (see above).

Use the **Left/Right** keys to tick the box and display the **Wake-up timer** menu.



The lines **Wake-up time**, **Programme number** and **Daily** only appear if you have ticked the box on the line marked **Wake-up timer**.

Wake-up time :

Use the number keys (0 to 9) on the remote control to set the time at which you wish to be woken.

Programme number :

Select the programme you wish to be woken by.

Daily :

Tick this box if you wish to be awakened at this time every day.

Exit the menu using *exit*.

Set the television to standby using the  key on the remote control. The red indicator light on the television flashes.

The television will come on automatically at the programmed time and will go off one hour later if you do not use the remote control.

TIME	
Return	
Sleep timer	< > 00 : 00
Current time	11 : 28
Wake-up timer	☒
Wake-up time	07 : 07
Programme number	01 BBC1
Daily	☐

Select the line marked **Return** to return to the previous menu.

Daily viewing

List of Channels



This list contains up to 10 pages. The number of pages depends on the number of programmes memorized. For each programme, the list indicates the station name or type and the programme number. The 3 AV programmes are listed on page 11.

GB

To display the list, press the **list** key on the remote control

or

Display the **SUMMARY** using the **menu** key on the remote control. Select the line marked **List**. Validate using **ok**.

The page displayed is the page containing the programme you are watching. It is identified in the list by the symbol **TV**.

To display the next page, press the **Right** key.

To display the previous page, press the **Left** key.

If you wish to watch one of the programmes on the page displayed:
Enter the last digit of the programme number (e.g. for 25 simply enter 5) on the remote control. The list disappears and your programme is selected.

Or,

- Select the programme using the **Up/Down** keys.
- Validate using **ok**.
- Exit the menu using **exit**.

LIST	
Exit	
► 01	BBC 1
02	BBC 2
03	FR 3
04	CC19
05	ARTE
06	M6
07	CNN
08	PREM
09	EURO
Page +/- ◀ / ▶	
Programme: 0 - 9	

Daily viewing

Selecting Programmes

For channels 1 to 9, press the number key corresponding to the desired channel on the remote control. For programme numbers higher than 10, press the **0** key on the remote control: "- -" appears on the screen. Now use the number keys on the remote control to enter first the tens digit then the units digit.



*If you press **0** while "- -" is already displayed, the display returns to **0-**, in which case you can only select programmes 1 to 9.*

Scrolling the Programmes

You can scroll through the programmes using the **pr + / pr -** keys.

GB

Audio-visual (AV) Programmes

Press the **av** key to call the last audio-visual (AV) programme watched. Press repeatedly to scroll the audio-visual (AV) programmes on the screen.

Volume Control

Use the volume **+/-** keys to increase or decrease the volume.

Muting the Sound

Press the  key to mute the sound. Press again to restore the sound.

Zoom

(16/9 models only)

This function is useful for 4/3 or letterbox pictures (black bands at the top and bottom of the screen).

Use the **Left/Right** keys to select the desired zoom position:

ZOOM 0: 4/3 picture (black bands at the sides).

FULL SCREEN: for a 4/3 picture that fills the screen.

ZOOM 1: for letterbox pictures.

Displaying Information

Press the **info** key to display the following information on the screen: channel number and name, time, zoom, type of sound.

Television Lock



You can use this function to prevent anyone from switching on the television using the buttons on the television set.

The buttons on the television set are locked in the following cases:

- If you switch off the set by pressing and holding the  key on the remote control for more than 3 seconds,
- After a programmed stop,
- If the television is set to standby when the alarm has been set.

When the television is locked the red power will be light flashing.

The television can now only be operated from the remote control.

To release the lock, press any number key on the remote control.

Switching Off the Television

To switch off the television, press the Standby key on the remote control or press the ON/OFF switch on the television set.

Teletext



Certain channels broadcast an electronic news page service with a range of different information services. The presentation and use of the Teletext differ from one country to another and from one programme to another (Teletext, Fasttext or Toptext).

Press the **text** key to display the **Teletext Index** (page 100).

A message will inform you if the programme you are watching has no Teletext service.

To call up a page:

Enter the 3 digits of the page number you wish to consult (for example, 150 or 170).

After a moment, the page appears.

Use the **Left/Right** keys to consult the next or the previous page.

GB

Standard Functions

Rolling pages:

Some information is displayed over several sub-pages. It is scrolled on your screen as it is received.

To stop scrolling, select **STOP** using the **Up/Down** keys and validate using *ok*. Press *ok* again to continue scrolling.

Masked text:

To reveal a hidden answer (for example in a quiz programme), select **???** using the **Up/Down** keys and validate using *ok*. Press *ok* again to hide the answers.

Zoom :

Select **ZOOM** using the **Up/Down** keys then press the *ok* key once to magnify the top of the screen, twice to magnify the bottom of the screen (the page will scroll from top to bottom) and a third time to return to the normal display.

Display:

You can superpose the Teletext page over the TV picture. To do this, select **MIX** using the **Up/Down** keys then validate by pressing the *ok* key. Press again *ok* to return to the normal display.

Sub-code:

You can use this to access a sub-page directly.

Select **"- - -"** using the **Up/Down** keys. Then enter the four digits of the required sub-page number.



*Certain programmes have **Alarm** pages that you can set to appear at the time you require. For example: for 15h30 enter **1530** as the sub-page number then press **exit**. You must of course leave the television on the programme which is to transmit the **Alarm** page.*

Index:

To call up the index page, select **100** using the **Up/Down** keys then validate using *ok*.

Direct access:

You can use the yellow and blue keys to directly access the pages indicated in the bar at the bottom of the screen.

Fasttext functions:

If the Teletext you receive is Fasttext, a sub-menu at the bottom of the screen appears which you can use to select from the 4 headings according to its colour.

To select a heading, press the key of the corresponding colour.

Toptext functions:

If the Teletext you receive is TOPtext, the pages are arranged into headings and sub-headings by subject.

You can select the first page of a heading directly by pressing the blue key, or the first page of a sub-heading by pressing the yellow key.

Other functions:

With certain Teletext channels, it is possible to have sub-titles overlaid on the screen for certain broadcasts as well as certain news flash updates.

The corresponding page number is indicated in the Teletext index.

Once you have found the page, the sub-title or the news flash will be overlaid onto the TV picture.

The navigation status bar disappears after a few seconds. To display it again, press the *text* key.

To exit Teletext, press *exit* or *text*.

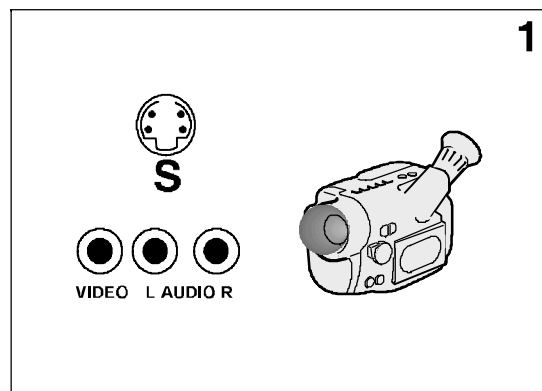
Other Connections

The CINCH Video and Audio sockets (1)* are provided to connect a VHS or 8mm camcorder.

The S and CINCH Audio sockets (1)* are provided to connect a S-VHS or Hi-8 camcorder.



To use the appliance you have connected, press the **av** key several times until the AV3 programme is selected on the screen. When you switch off the connected appliance, the television will remain on the AV3 programme and you must use the numerical keys on the remote control to select a programme.

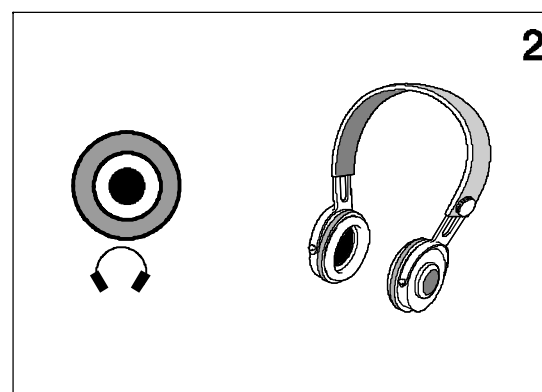


* on models equipped with this function

The headphone socket (2)* is provided to connect a headphone or earphones.



Connecting headphones mute the sound from the television loudspeakers.



* on models equipped with this function

Other Possibilities

Copying a cassette:

Plug the VCR you wish to record to into the SCART socket AV2.

Plug the appliance you wish to copy from as follows: into the peripheral jack AV1 for a VCR; into the CINCH AV3 jacks for a camcorder (see table below).

PLAY		RECORD		CALL PROGRAMME
Appliance	SCART Socket	Appliance	SCART Socket	
VCR 	Peripheral AV1	VCR ou Camcorder	AV2	AV1
Camcorder 	Cinches or S-Video AV3	VCR ou Camcorder	AV2	AV3

Connecting a HiFi or AV amplifier

If you wish to connect a HiFi or AV amplifier, plug it into the peripheral jack AV2 using a SCART-CINCH type lead.

[illegible]

POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

(5) : standby

Note :
During measurements in the power supply unit - Use the primary power unit ground (PGND).

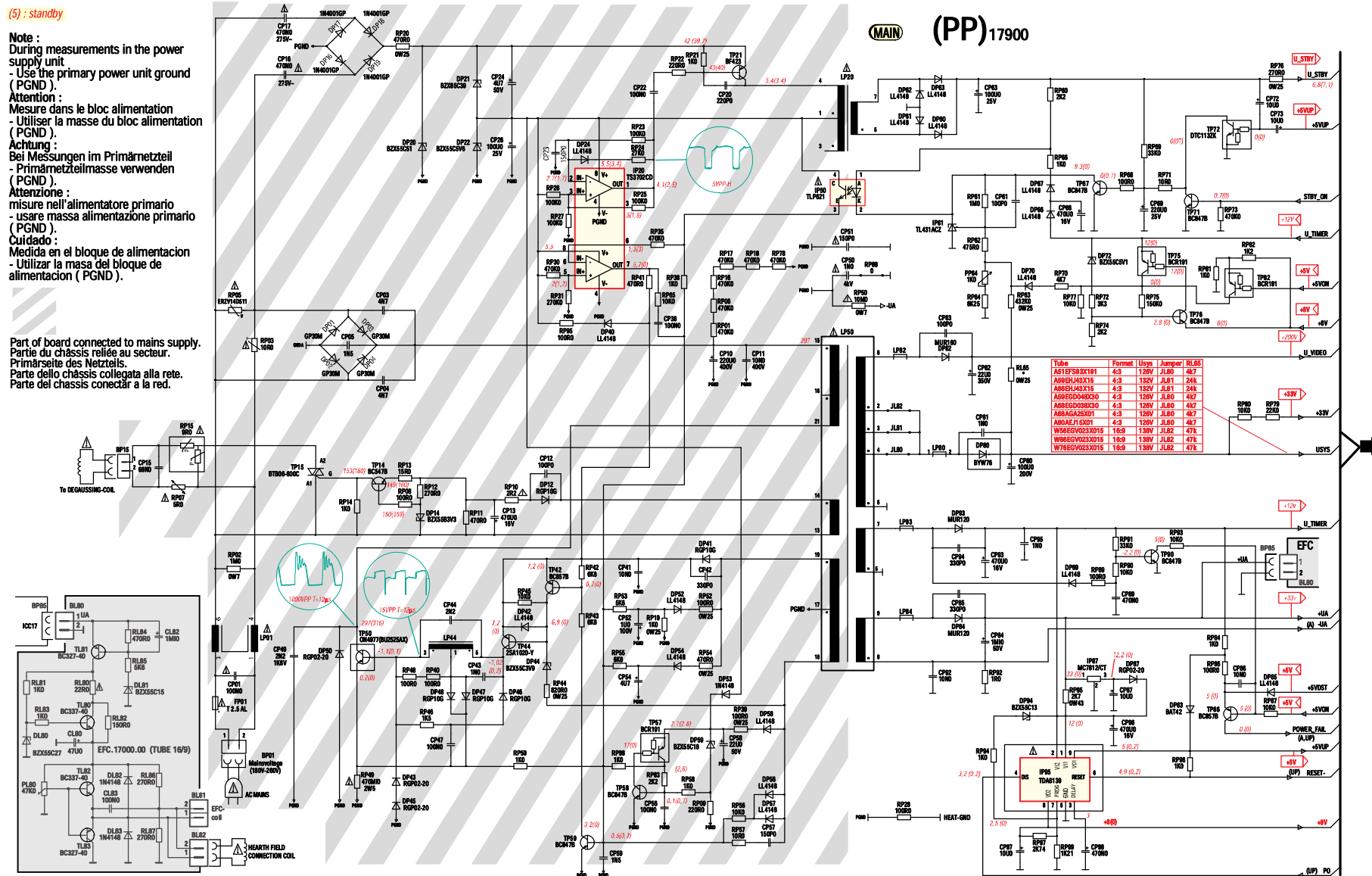
Attention :
Mesure dans le bloc alimentation - Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil - Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario - usare massa alimentazione primario (PGND).

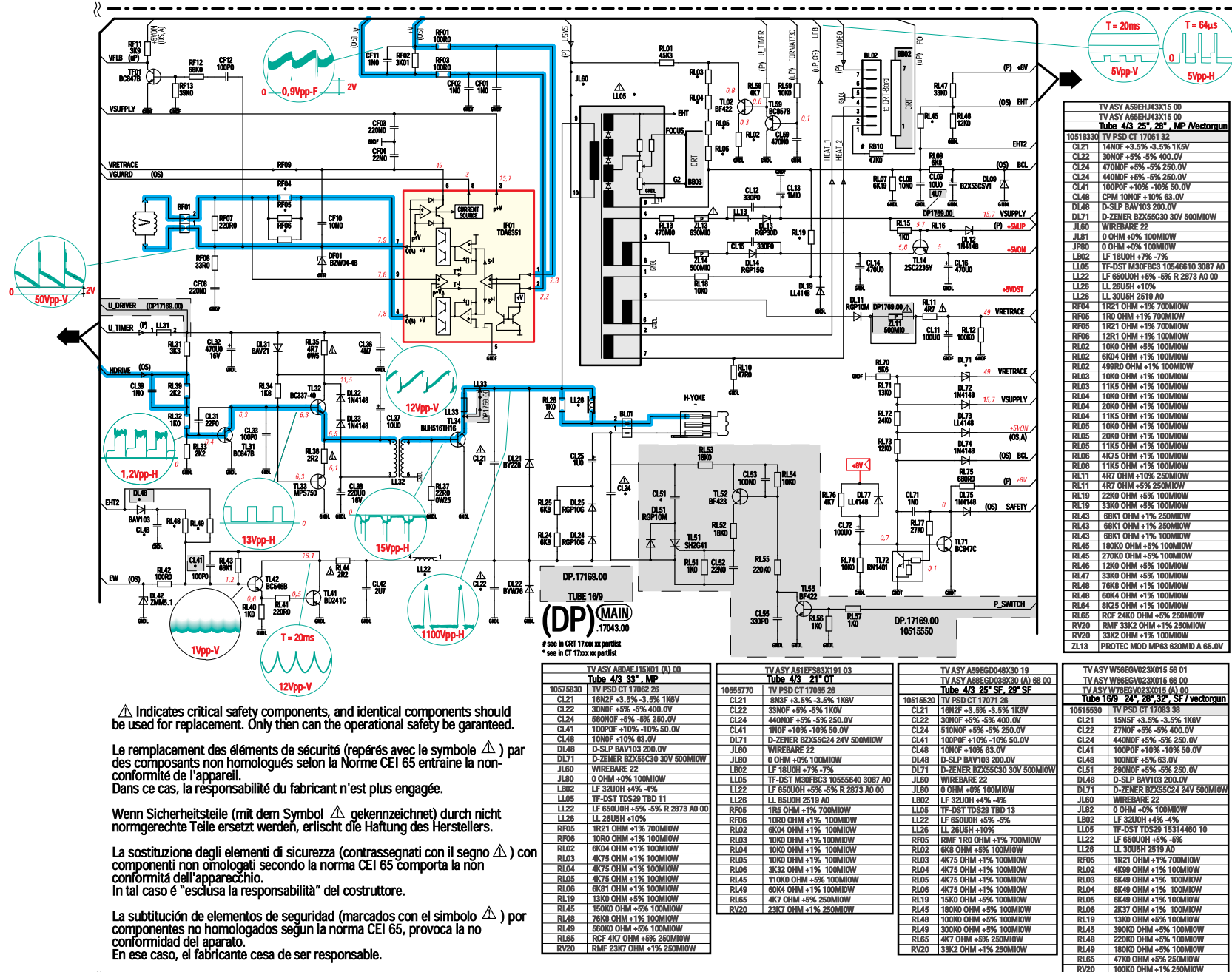
Cuidado :
Medida en el bloque de alimentacion - Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectará a la red.

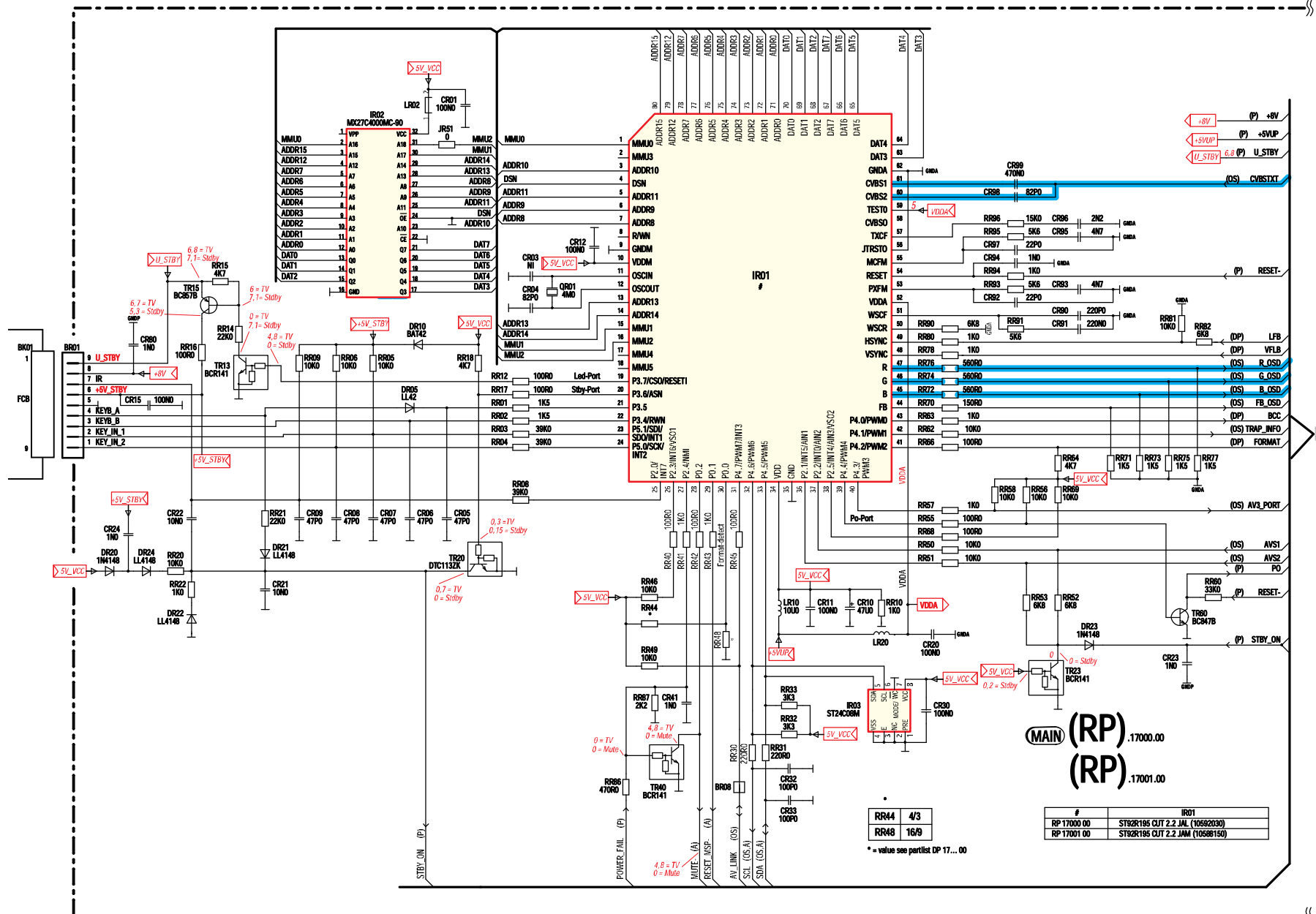


⚠ Use isolating mains transformer - Utiliser un transformateur isolateur du secteur - Einen Trenntrafo verwenden
Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarvi dalla rete

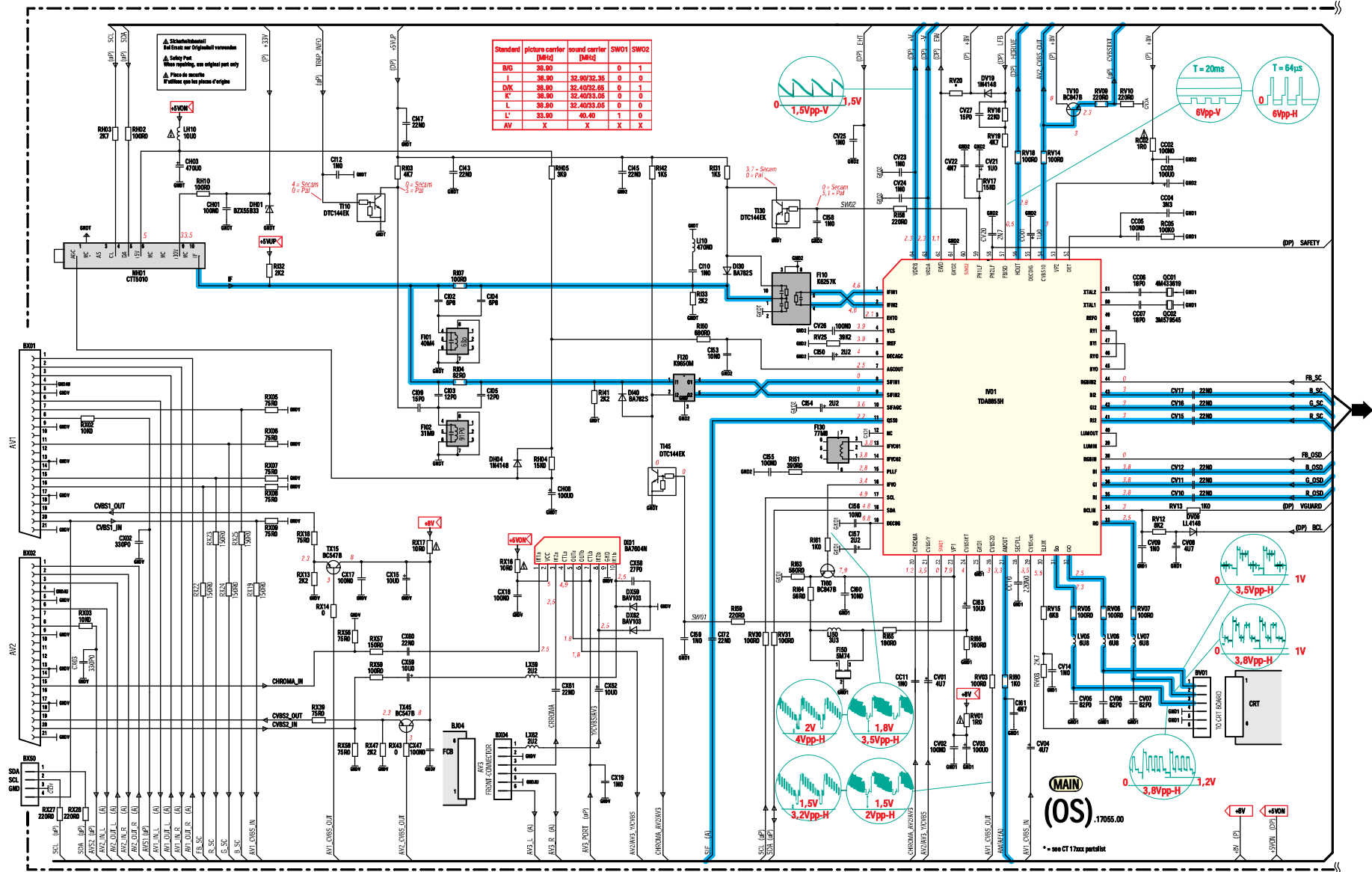
SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



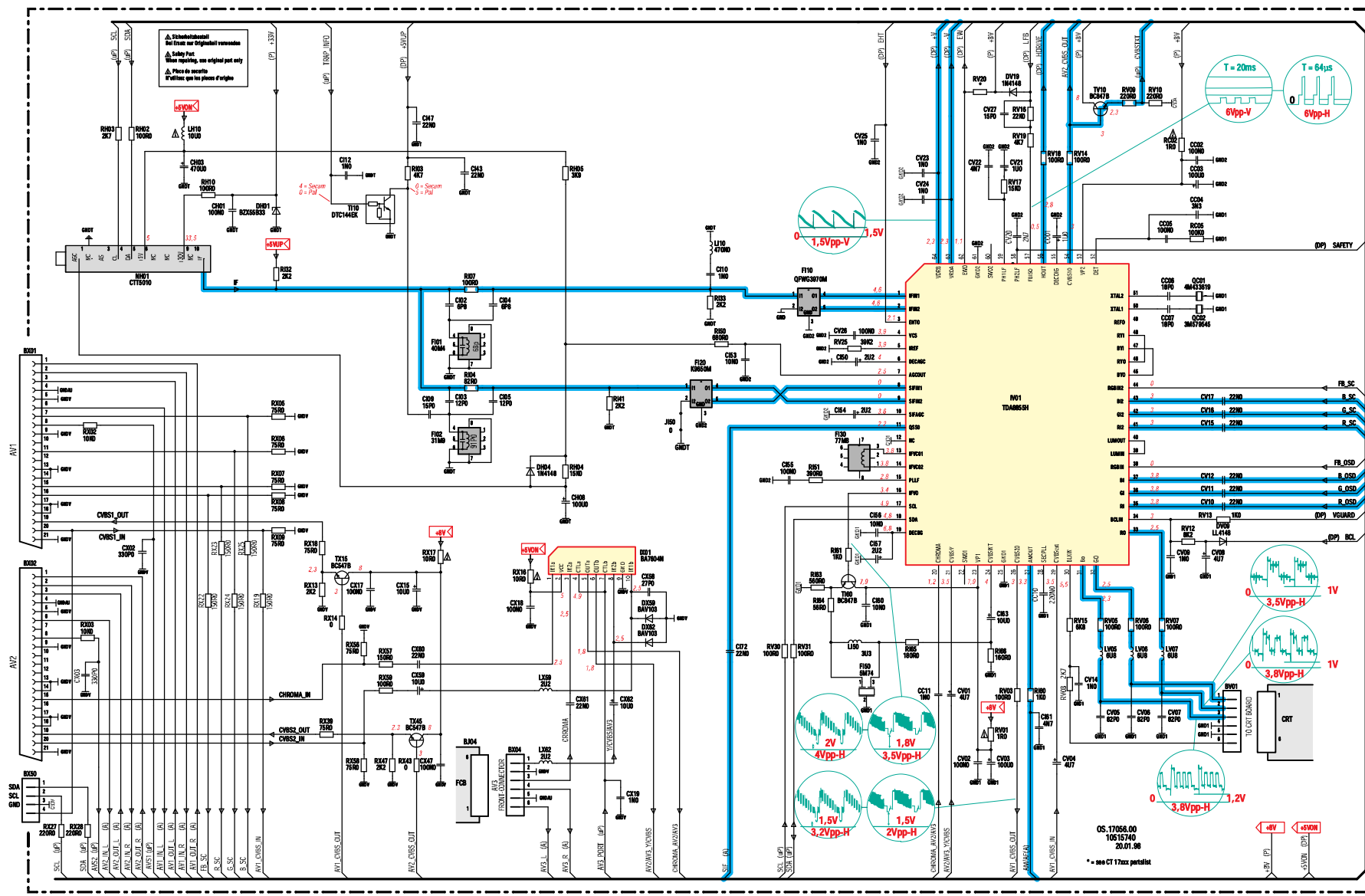
CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



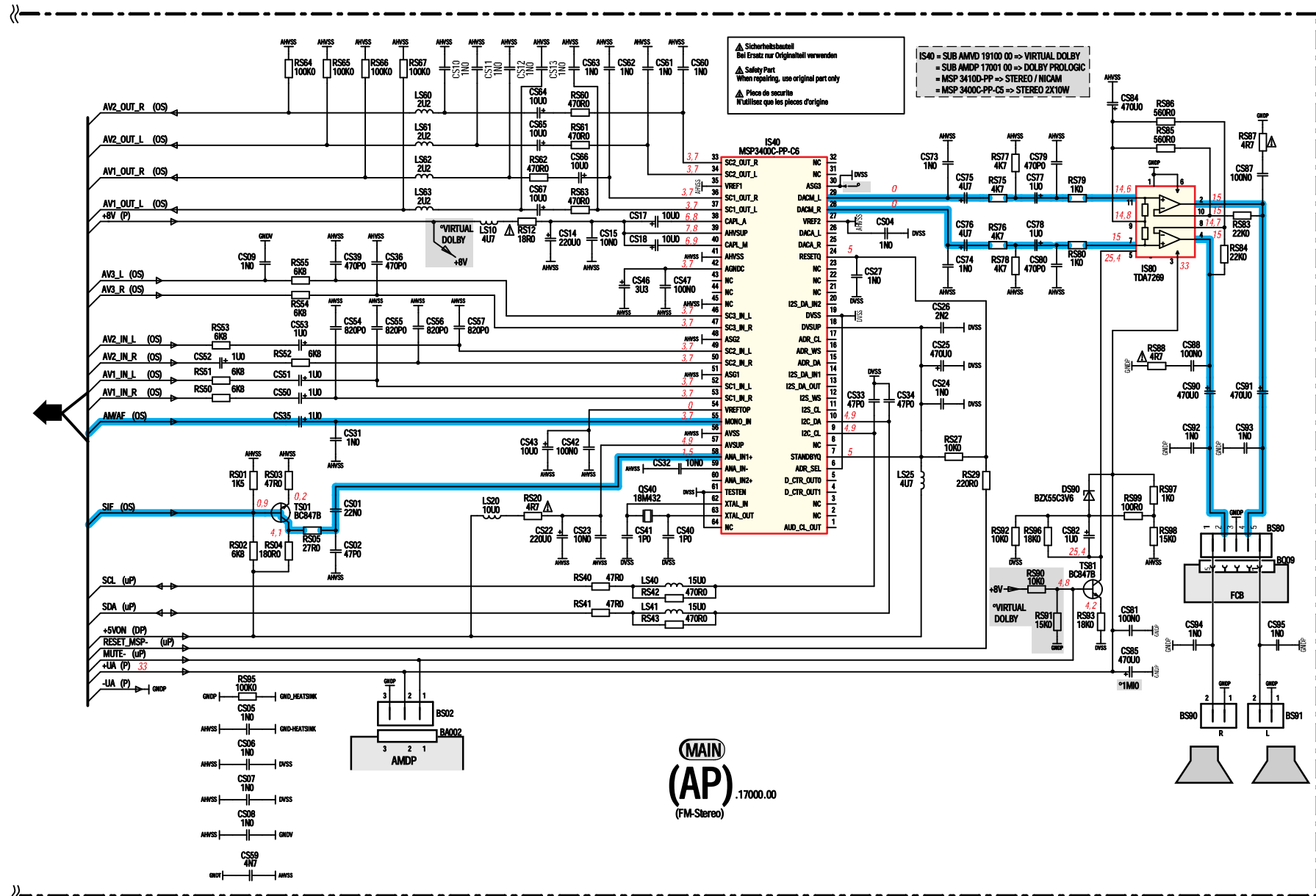
**RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO
SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO**



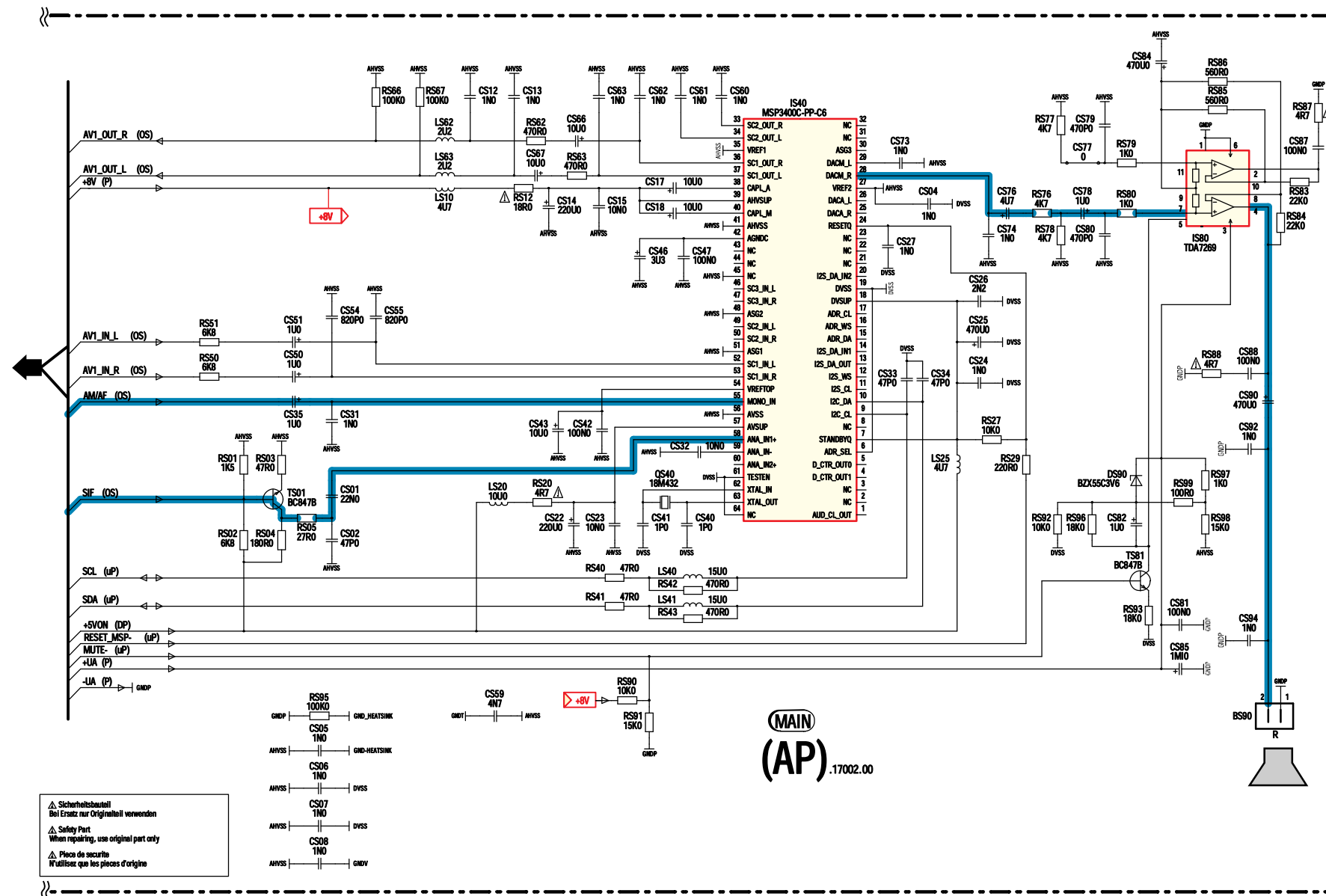
RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



**AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)**



AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR (MONO)



POWER SUPPLY - ALIMENTATION - NETZTEIL - ALIMENTAZIONE - ALIMENTACIÓN

(5) : standby

Note :
During measurements in the power supply unit - Use the primary power unit ground (PGND).

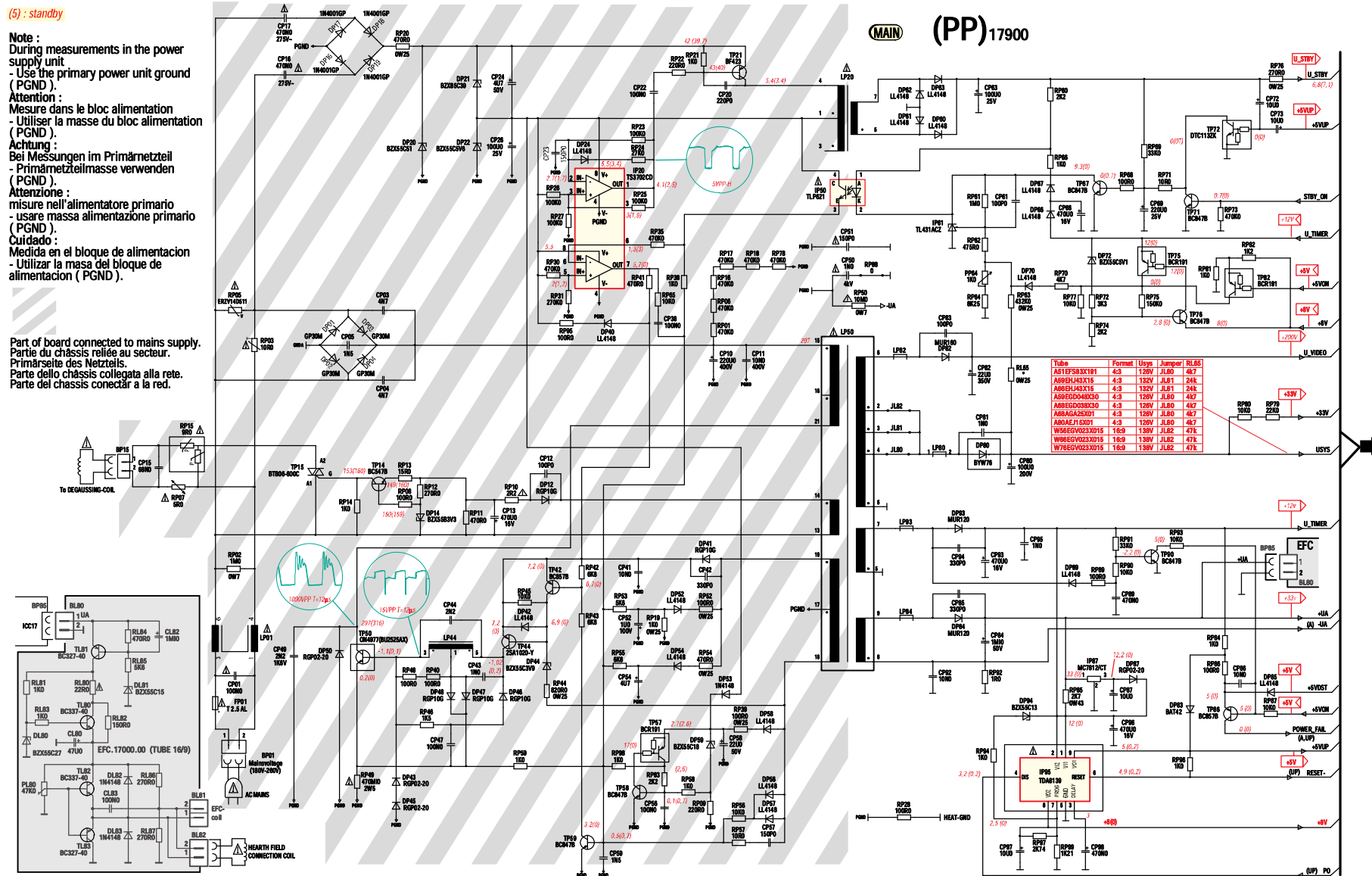
Attention :
Mesure dans le bloc alimentation - Utiliser la masse du bloc alimentation (PGND).

Achtung :
Bei Messungen im Primärnetzteil - Primärnetzteilmasse verwenden (PGND).

Attenzione :
misure nell'alimentatore primario - usare massa alimentazione primario (PGND).

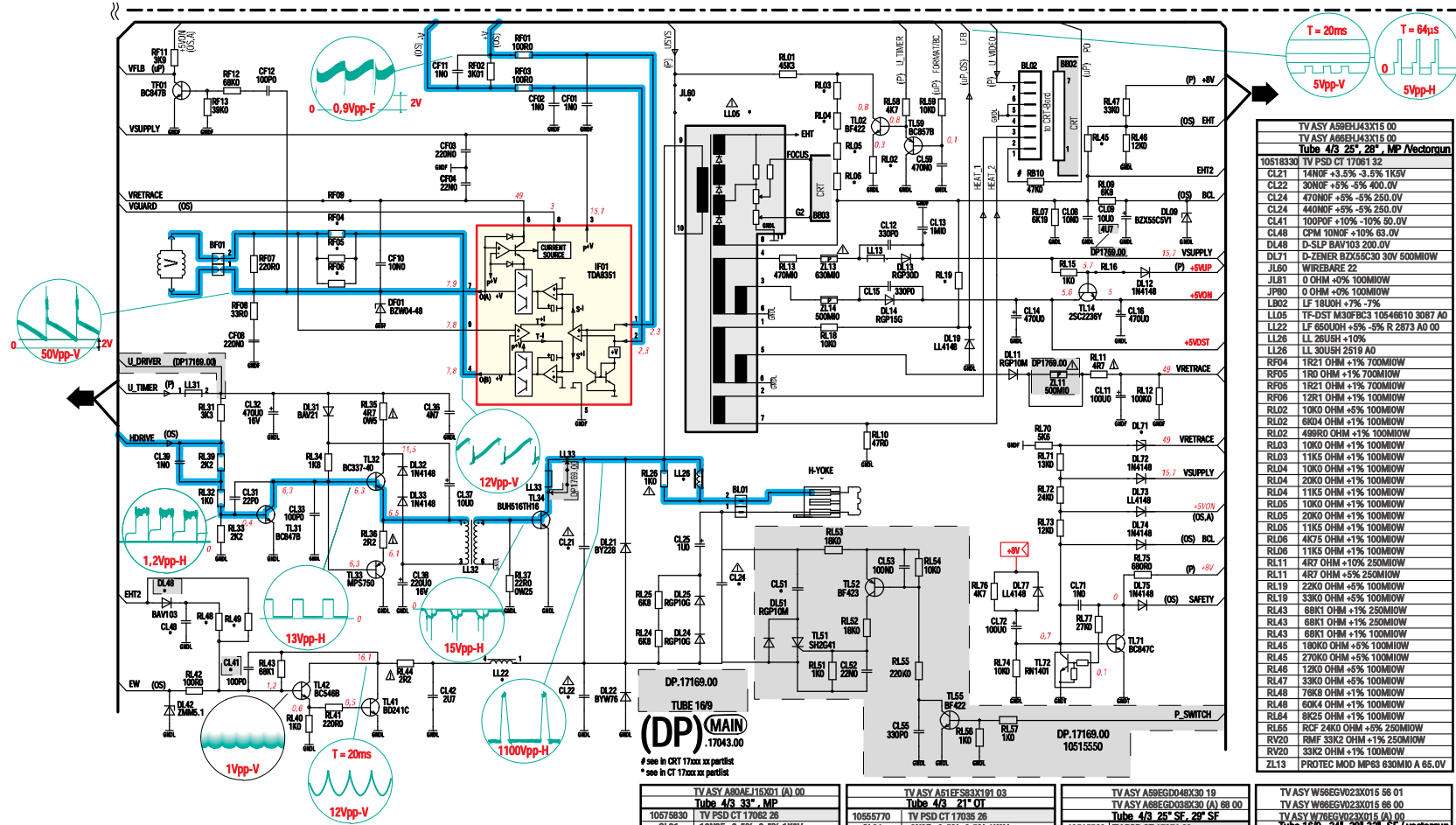
Cuidado :
Medida en el bloque de alimentacion - Utilizar la masa del bloque de alimentacion (PGND).

Part of board connected to mains supply.
Partie du chassis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectará a la red.



⚠ Use isolating mains transformer - Utiliser un transformateur isolateur du secteur - Einen Trenntrafo verwenden
Utilizar un transformador aislador de red - Utilizzare un trasformatore per isolarvi dalla rete

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



△ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole △) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol △ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione degli elementi di sicurezza (contrassegnati con il segno △) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el símbolo △) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

TV ASY A58EH43X15 00 Tube 43 33 MP	TV ASY A58EH43X15 00 Tube 43 33 MP
1051530 TV PSD CT 17061 32	1051530 TV PSD CT 17061 32
CL21 14N0F +3.5% -3.5% 1K5V	CL21 14N0F +3.5% -3.5% 1K5V
CL22 30N0F +5% -5% 400.0V	CL22 30N0F +5% -5% 400.0V
CL24 470N0F +5% -5% 250.0V	CL24 470N0F +5% -5% 250.0V
CL41 100P0F +10% -10% 50.0V	CL41 100P0F +10% -10% 50.0V
CL48 10N0F +10% -10% 63.0V	CL48 10N0F +10% -10% 63.0V
DL71 D-ZENER BZX55C30 30V 500MIOW	DL71 D-ZENER BZX55C30 30V 500MIOW
JL60 WIREBARE 22	JL60 WIREBARE 22
JL81 0 OHM +0% 100MIOW	JL81 0 OHM +0% 100MIOW
JL82 0 OHM +0% 100MIOW	JL82 0 OHM +0% 100MIOW
JL83 0 OHM +0% 100MIOW	JL83 0 OHM +0% 100MIOW
JL84 0 OHM +0% 100MIOW	JL84 0 OHM +0% 100MIOW
JL85 0 OHM +0% 100MIOW	JL85 0 OHM +0% 100MIOW
JL86 0 OHM +0% 100MIOW	JL86 0 OHM +0% 100MIOW
JL87 0 OHM +0% 100MIOW	JL87 0 OHM +0% 100MIOW
JL88 0 OHM +0% 100MIOW	JL88 0 OHM +0% 100MIOW
JL89 0 OHM +0% 100MIOW	JL89 0 OHM +0% 100MIOW
JL90 0 OHM +0% 100MIOW	JL90 0 OHM +0% 100MIOW
JL91 0 OHM +0% 100MIOW	JL91 0 OHM +0% 100MIOW
JL92 0 OHM +0% 100MIOW	JL92 0 OHM +0% 100MIOW
JL93 0 OHM +0% 100MIOW	JL93 0 OHM +0% 100MIOW
JL94 0 OHM +0% 100MIOW	JL94 0 OHM +0% 100MIOW
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JL100 0 OHM +0% 100MIOW	JL100 0 OHM +0% 100MIOW

TV ASY A58EH43X15 03 Tube 43 21 01	TV ASY A58EH43X15 03 Tube 43 21 01
1051570 TV PSD CT 17036 25	1051570 TV PSD CT 17036 25
CL21 8N0F +3.5% -3.5% 1K8V	CL21 8N0F +3.5% -3.5% 1K8V
CL22 33N0F +5% -5% 1K0V	CL22 33N0F +5% -5% 1K0V
CL24 44N0F +5% -5% 250.0V	CL24 44N0F +5% -5% 250.0V
CL41 1N0F +10% -10% 50.0V	CL41 1N0F +10% -10% 50.0V
DL71 D-ZENER BZX55C24 24V 500MIOW	DL71 D-ZENER BZX55C24 24V 500MIOW
JL60 WIREBARE 22	JL60 WIREBARE 22
JL81 0 OHM +0% 100MIOW	JL81 0 OHM +0% 100MIOW
JL82 0 OHM +0% 100MIOW	JL82 0 OHM +0% 100MIOW
JL83 0 OHM +0% 100MIOW	JL83 0 OHM +0% 100MIOW
JL84 0 OHM +0% 100MIOW	JL84 0 OHM +0% 100MIOW
JL85 0 OHM +0% 100MIOW	JL85 0 OHM +0% 100MIOW
JL86 0 OHM +0% 100MIOW	JL86 0 OHM +0% 100MIOW
JL87 0 OHM +0% 100MIOW	JL87 0 OHM +0% 100MIOW
JL88 0 OHM +0% 100MIOW	JL88 0 OHM +0% 100MIOW
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JL100 0 OHM +0% 100MIOW	JL100 0 OHM +0% 100MIOW

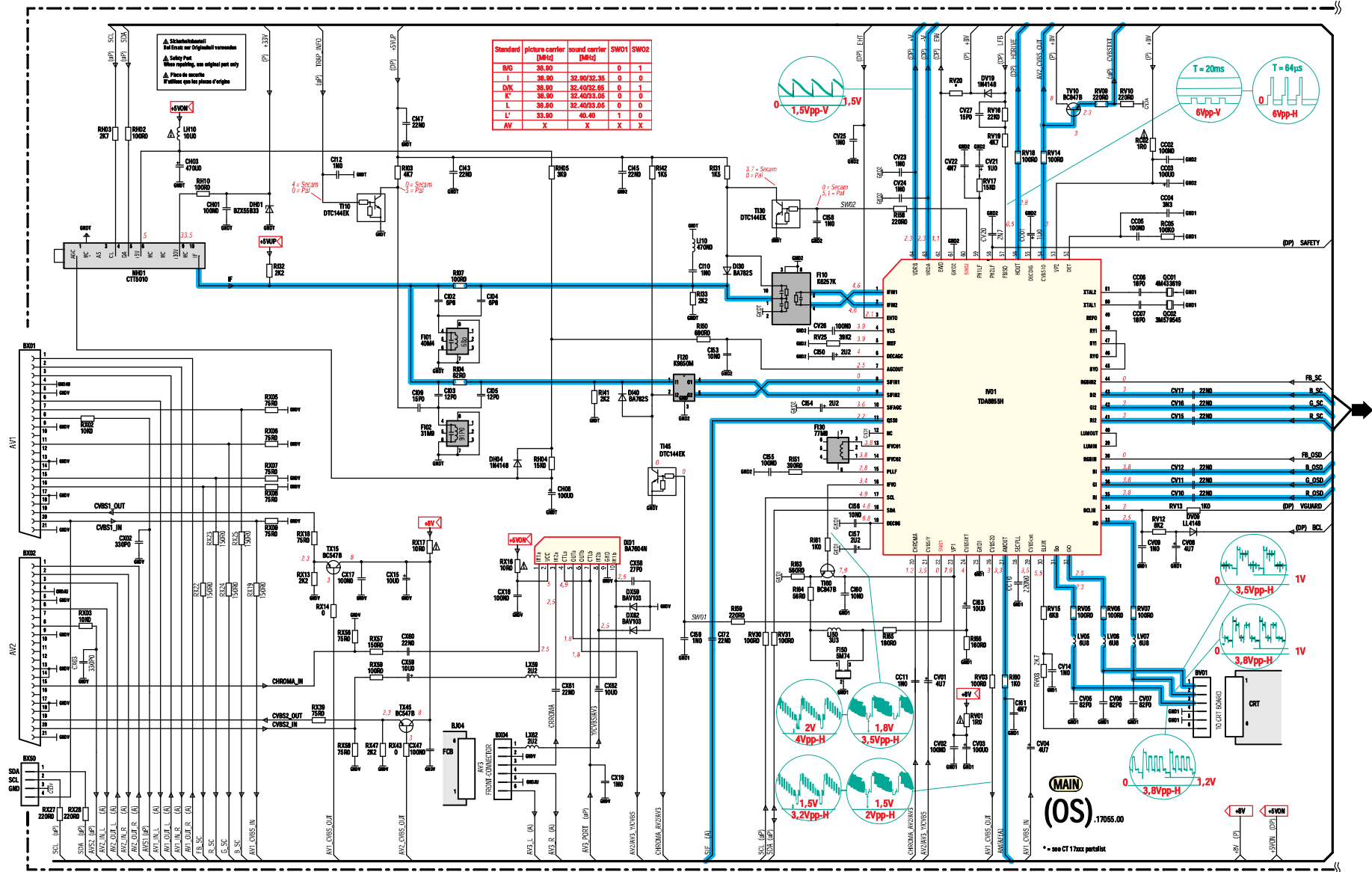
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1051550 TV PSD CT 17011 25	1051550 TV PSD CT 17011 25
CL21 16N2F +3.5% -3.5% 1K6V	CL21 16N2F +3.5% -3.5% 1K6V
CL22 30N0F +5% -5% 400.0V	CL22 30N0F +5% -5% 400.0V
CL24 51N0F +5% -5% 250.0V	CL24 51N0F +5% -5% 250.0V
CL41 100P0F +10% -10% 50.0V	CL41 100P0F +10% -10% 50.0V
CL48 10N0F +10% 63.0V	CL48 10N0F +10% 63.0V
DL71 D-ZENER BZX55C30 30V 500MIOW	DL71 D-ZENER BZX55C30 30V 500MIOW
JL60 WIREBARE 22	JL60 WIREBARE 22
JL81 0 OHM +0% 100MIOW	JL81 0 OHM +0% 100MIOW
JL82 0 OHM +0% 100MIOW	JL82 0 OHM +0% 100MIOW
JL83 0 OHM +0% 100MIOW	JL83 0 OHM +0% 100MIOW
JL84 0 OHM +0% 100MIOW	JL84 0 OHM +0% 100MIOW
JL85 0 OHM +0% 100MIOW	JL85 0 OHM +0% 100MIOW
JL86 0 OHM +0% 100MIOW	JL86 0 OHM +0% 100MIOW
JL87 0 OHM +0% 100MIOW	JL87 0 OHM +0% 100MIOW
JL88 0 OHM +0% 100MIOW	JL88 0 OHM +0% 100MIOW
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JL90 0 OHM +0% 100MIOW	JL90 0 OHM +0% 100MIOW
JL91 0 OHM +0% 100MIOW	JL91 0 OHM +0% 100MIOW
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JL94 0 OHM +0% 100MIOW	JL94 0 OHM +0% 100MIOW
JL95 0 OHM +0% 100MIOW	JL95 0 OHM +0% 100MIOW
JL96 0 OHM +0% 100MIOW	JL96 0 OHM +0% 100MIOW
JL97 0 OHM +0% 100MIOW	JL97 0 OHM +0% 100MIOW
JL98 0 OHM +0% 100MIOW	JL98 0 OHM +0% 100MIOW
JL99 0 OHM +0% 100MIOW	JL99 0 OHM +0% 100MIOW
JL100 0 OHM +0% 100MIOW	JL100 0 OHM +0% 100MIOW

TV ASY W58EH43X15 01 Tube 43 25 28 SF 29 SF	TV ASY W58EH43X15 01 Tube 43 25 28 SF 29 SF
1051530 TV PSD CT 17036 38	1051530 TV PSD CT 17036 38
CL21 15N5F +3.5% -3.5% 1K8V	CL21 15N5F +3.5% -3.5% 1K8V
CL22 27N0F +5% -5% 400.0V	CL22 27N0F +5% -5% 400.0V
CL24 44N0F +5% -5% 250.0V	CL24 44N0F +5% -5% 250.0V
CL41 100P0F +10% -10% 50.0V	CL41 100P0F +10% -10% 50.0V
CL48 10N0F +10% 63.0V	CL48 10N0F +10% 63.0V
DL71 D-ZENER BZX55C24 24V 500MIOW	DL71 D-ZENER BZX55C24 24V 500MIOW
JL60 WIREBARE 22	JL60 WIREBARE 22
JL81 0 OHM +0% 100MIOW	JL81 0 OHM +0% 100MIOW
JL82 0 OHM +0% 100MIOW	JL82 0 OHM +0% 100MIOW
JL83 0 OHM +0% 100MIOW	JL83 0 OHM +0% 100MIOW
JL84 0 OHM +0% 100MIOW	JL84 0 OHM +0% 100MIOW
JL85 0 OHM +0% 100MIOW	JL85 0 OHM +0% 100MIOW
JL86 0 OHM +0% 100MIOW	JL86 0 OHM +0% 100MIOW
JL87 0 OHM +0% 100MIOW	JL87 0 OHM +0% 100MIOW
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JL94 0 OHM +0% 100MIOW	JL94 0 OHM +0% 100MIOW
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JL97 0 OHM +0% 100MIOW	JL97 0 OHM +0% 100MIOW
JL98 0 OHM +0% 100MIOW	JL98 0 OHM +0% 100MIOW
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JL100 0 OHM +0% 100MIOW	JL100 0 OHM +0% 100MIOW

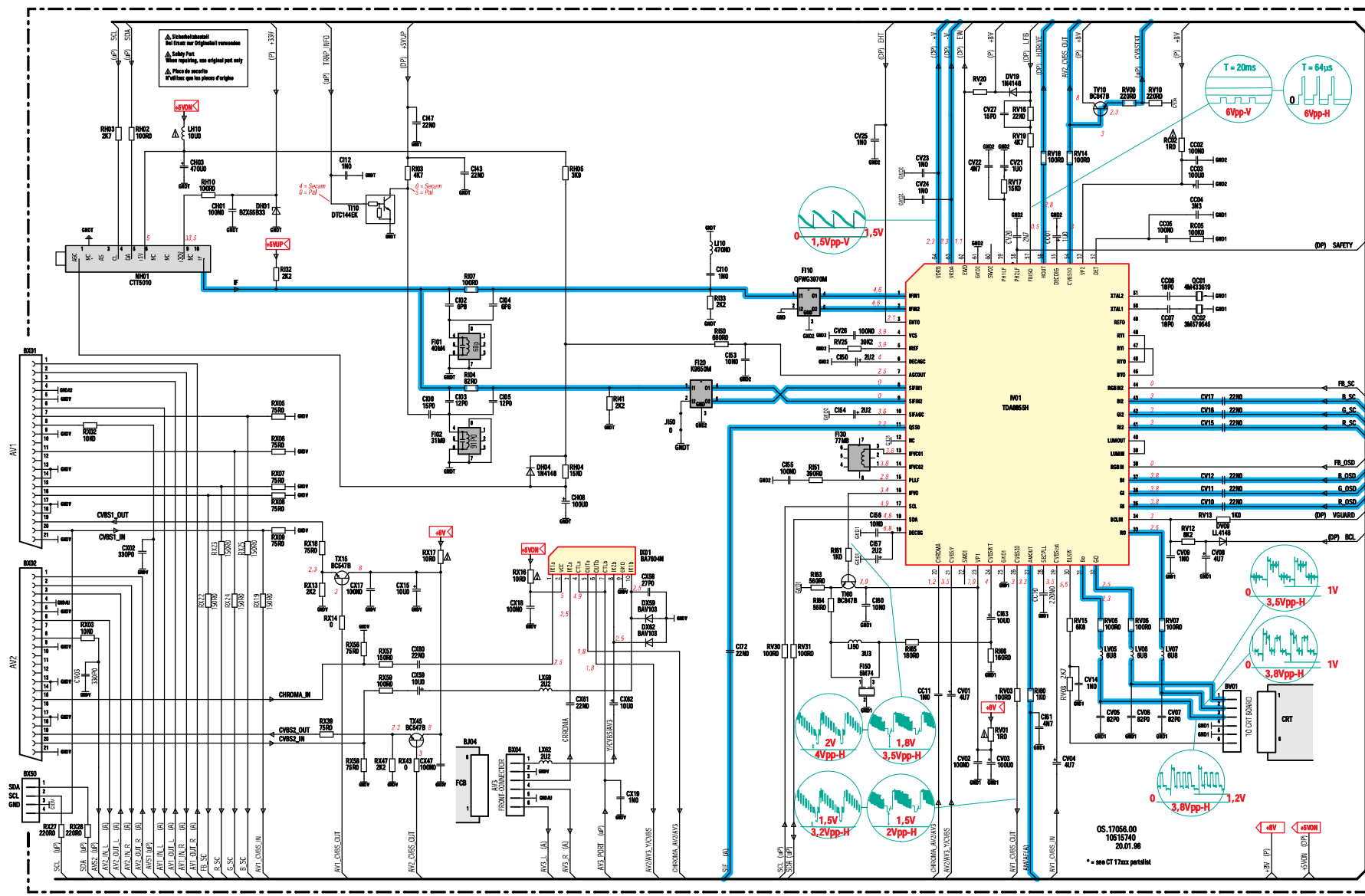
ICC17
First issue 07 / 98



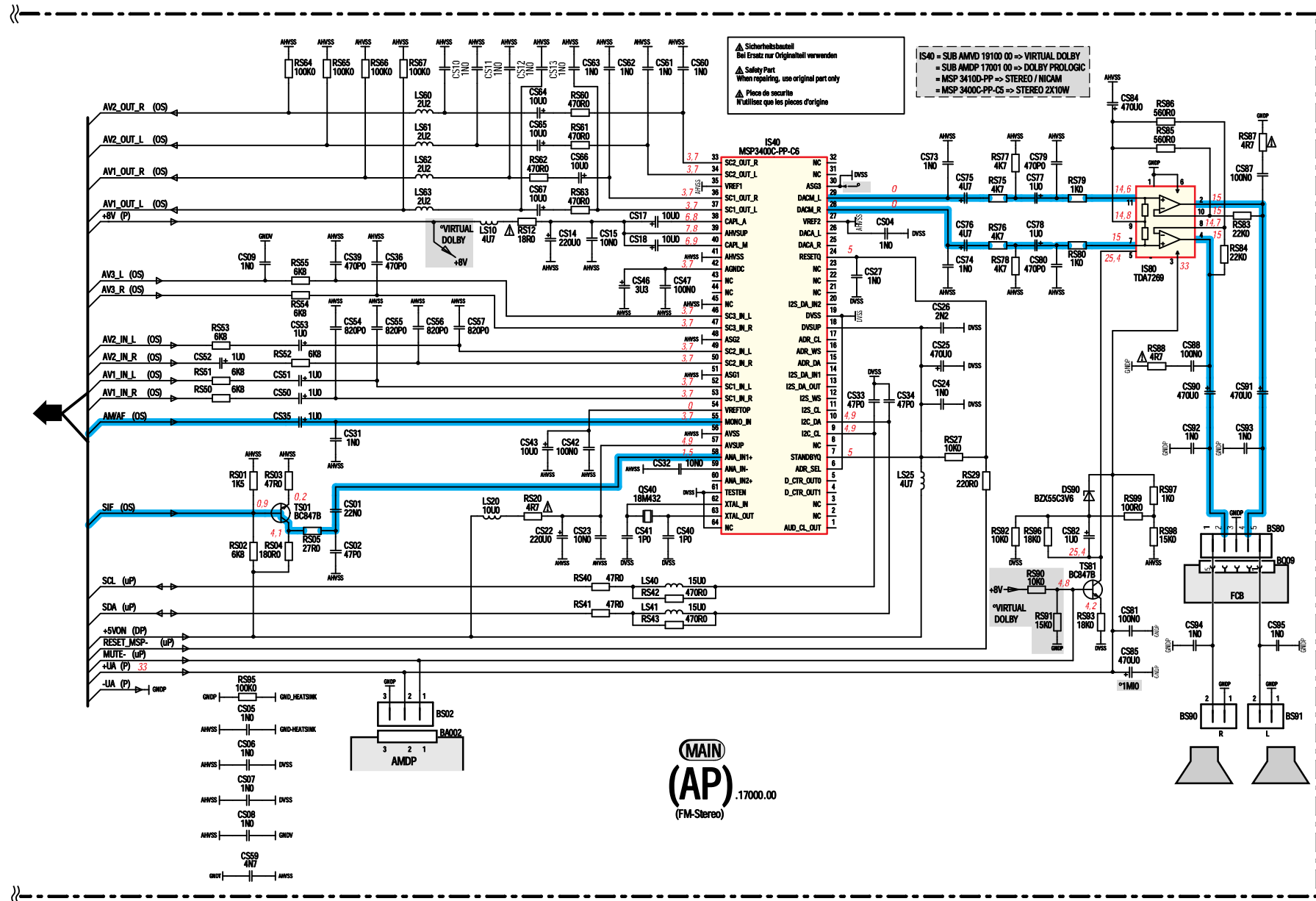
**RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO
SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO**



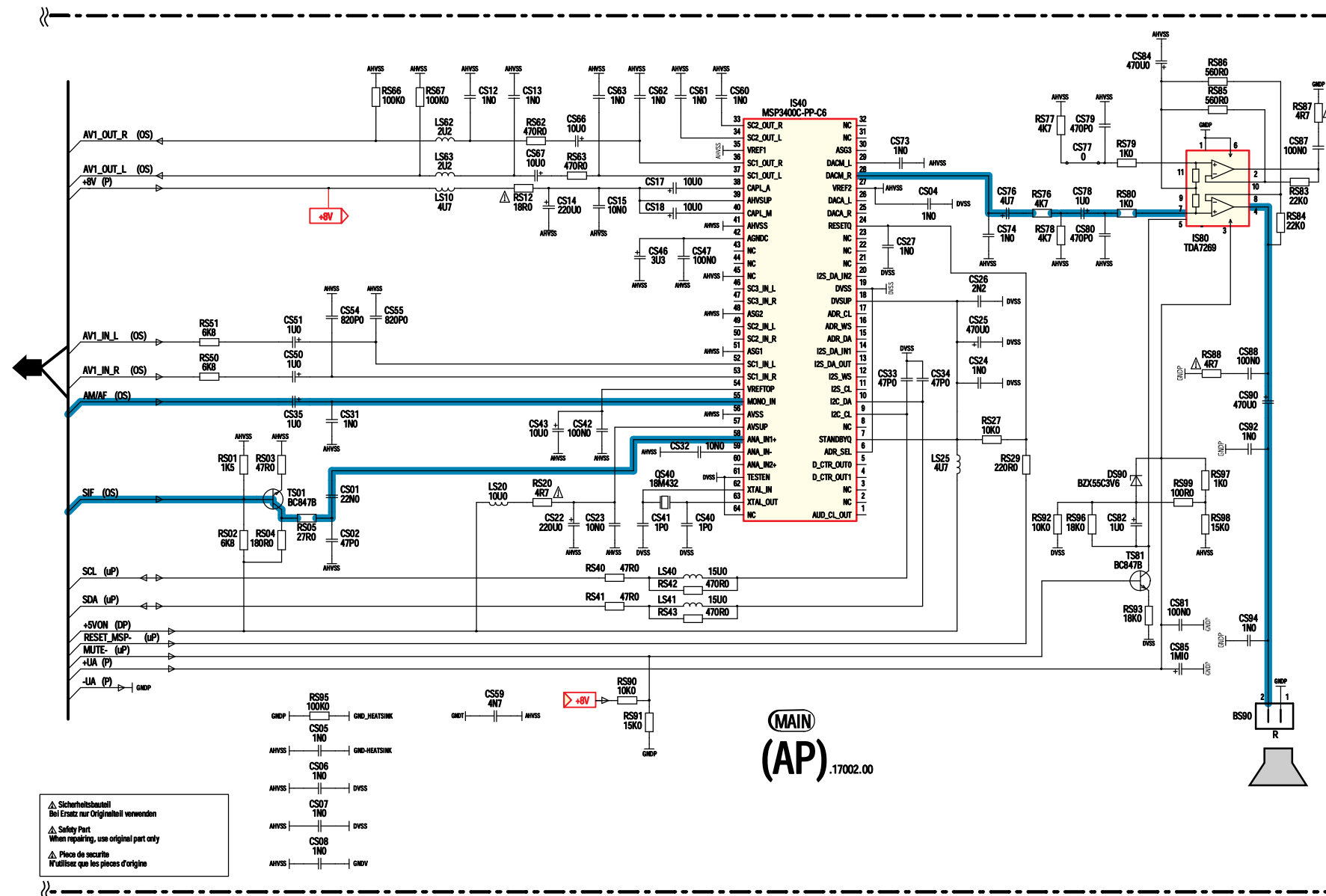
RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



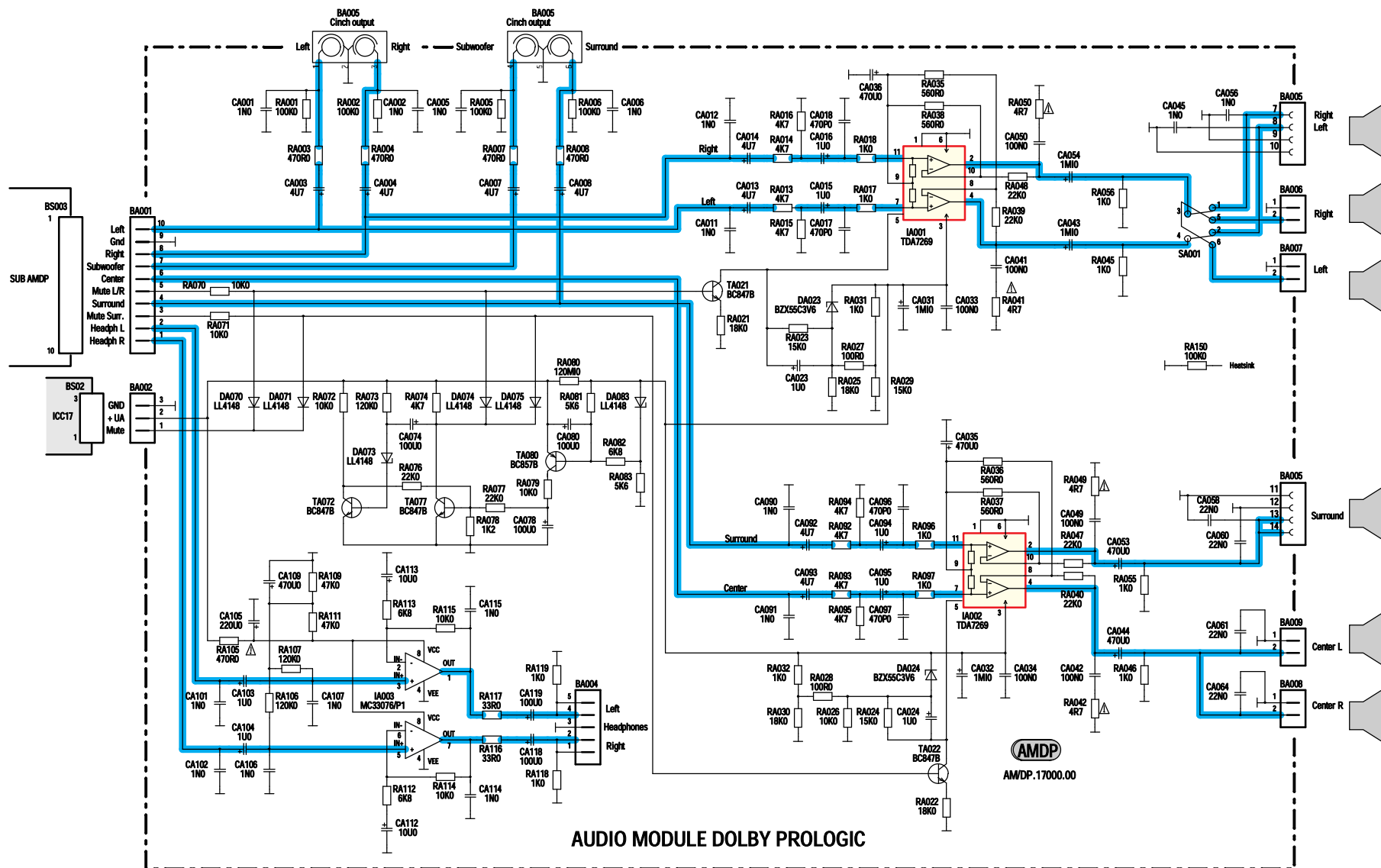
**AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)**



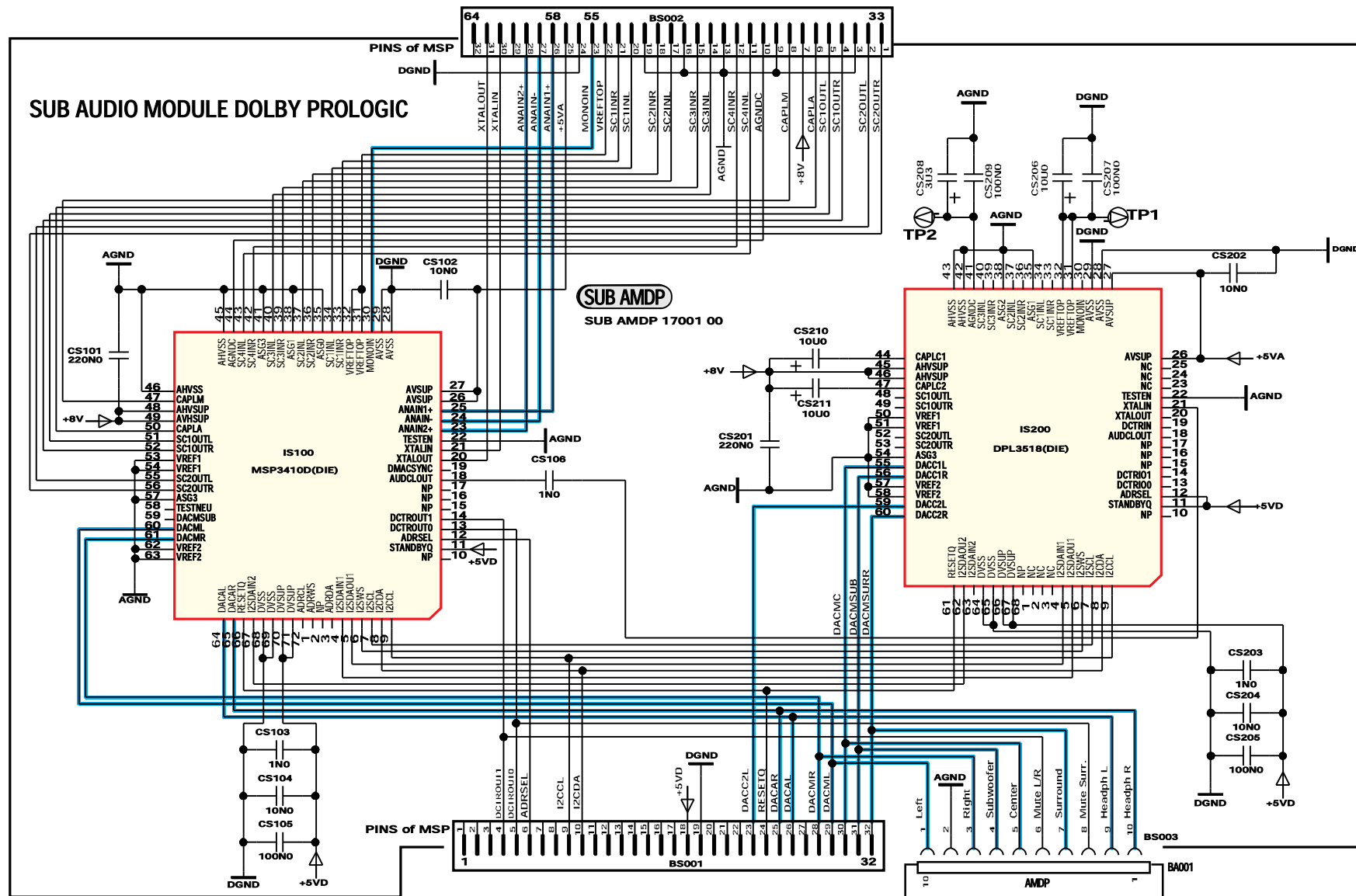
AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR (MONO)



AUDIO SIGNAL MODULE DOLBY PROLOGIC - MODULE AUDIO DOLBY PROLOGIC - DOLBY PROLOGIC VERSTÄRKER - MODULO AUDIO DOLBY PROLOGIC
ESQUEMA DEL MÓDULO AMPLIFICADOR DE AUDIO



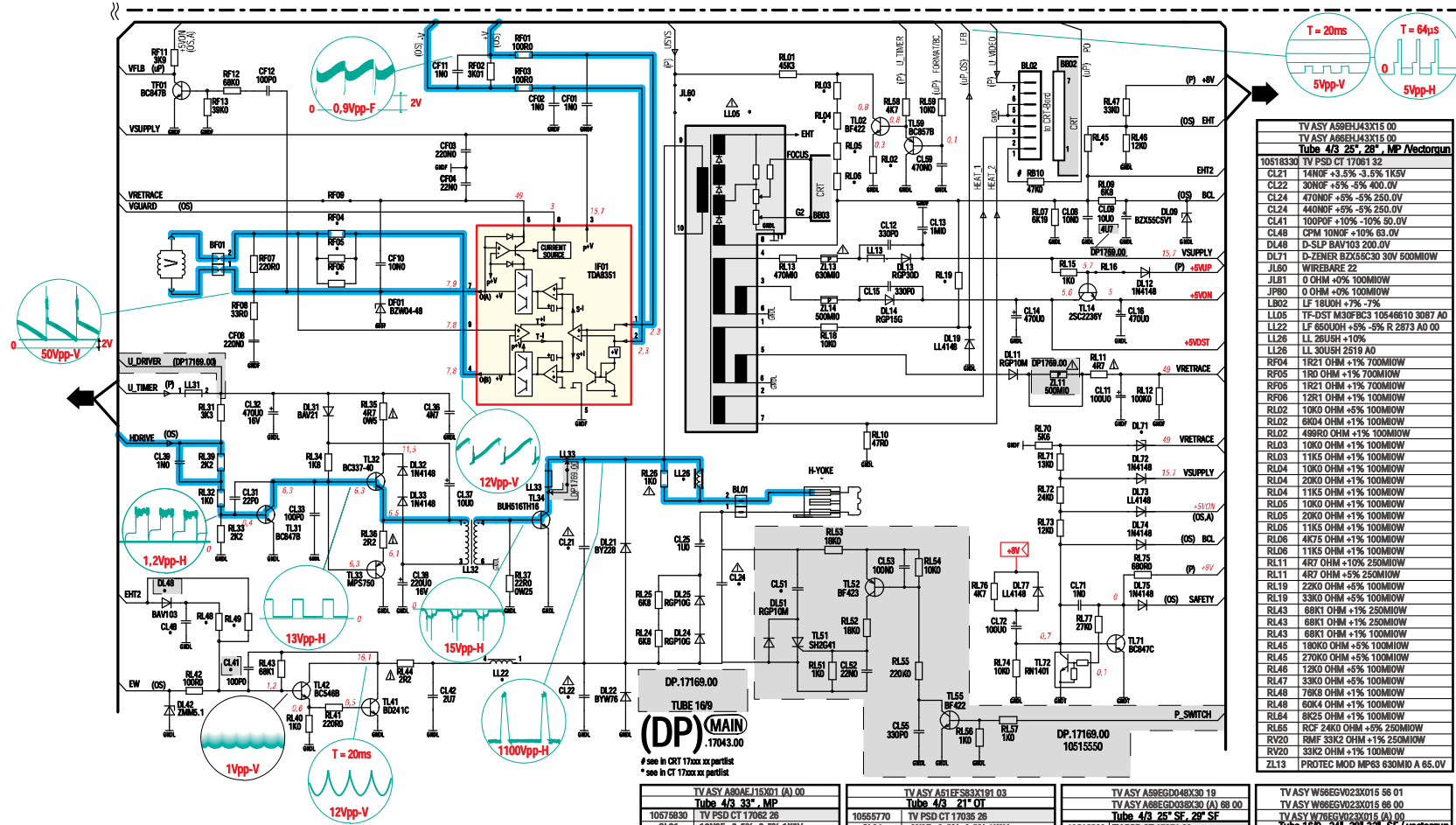
SUB AUDIO SIGNAL MODULE - SUB MODULE AUDIO - AUDIO SIGNAL SUBMODUL - SUB MODULO AUDIO



— ∞ ∞

ICC17
First issue 07 / 98

SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



△ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

Le remplacement des éléments de sécurité (repérés avec le symbole △) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol △ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

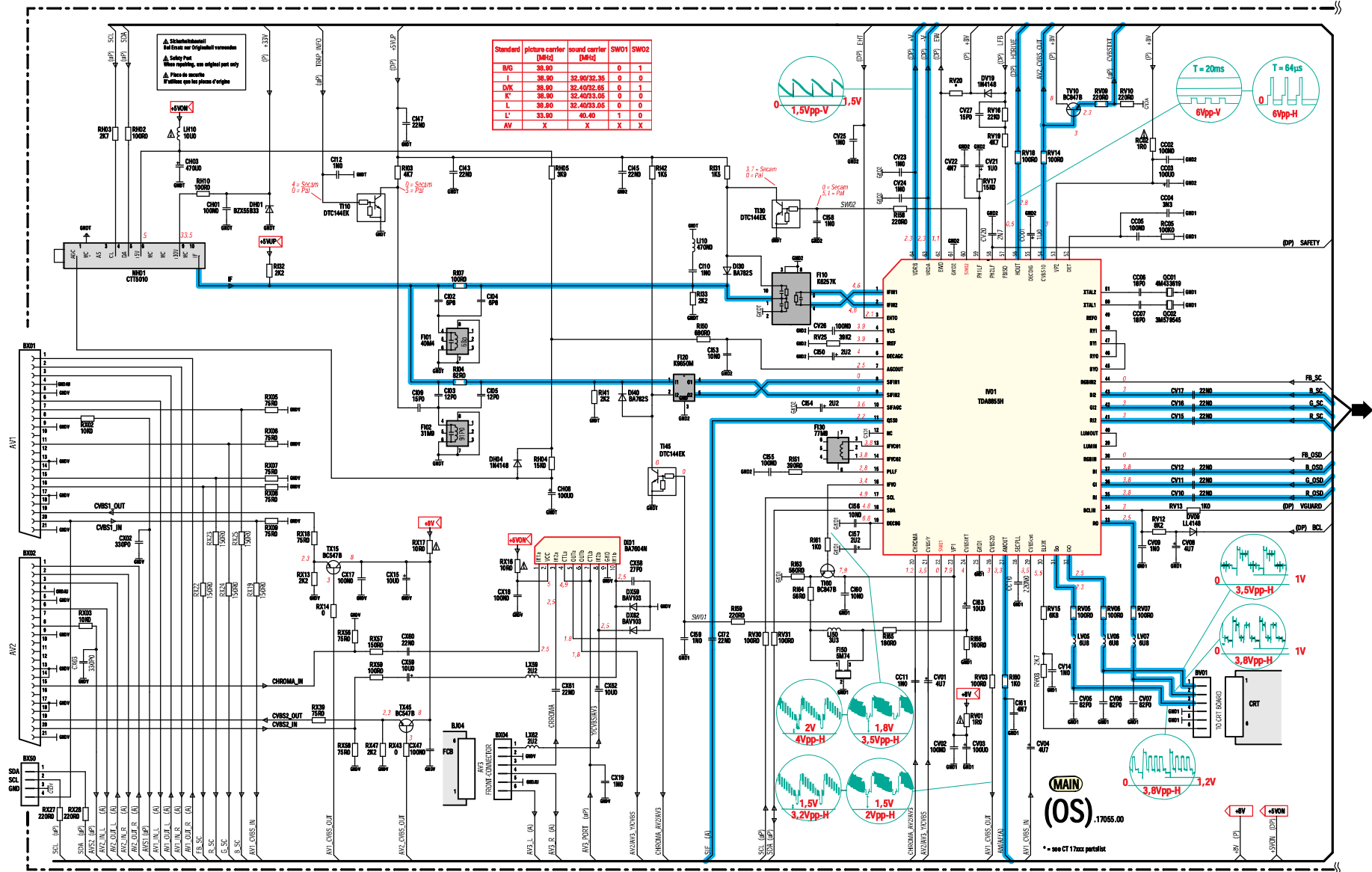
La sostituzione degli elementi di sicurezza (contrassegnati con il segno △) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el símbolo △) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

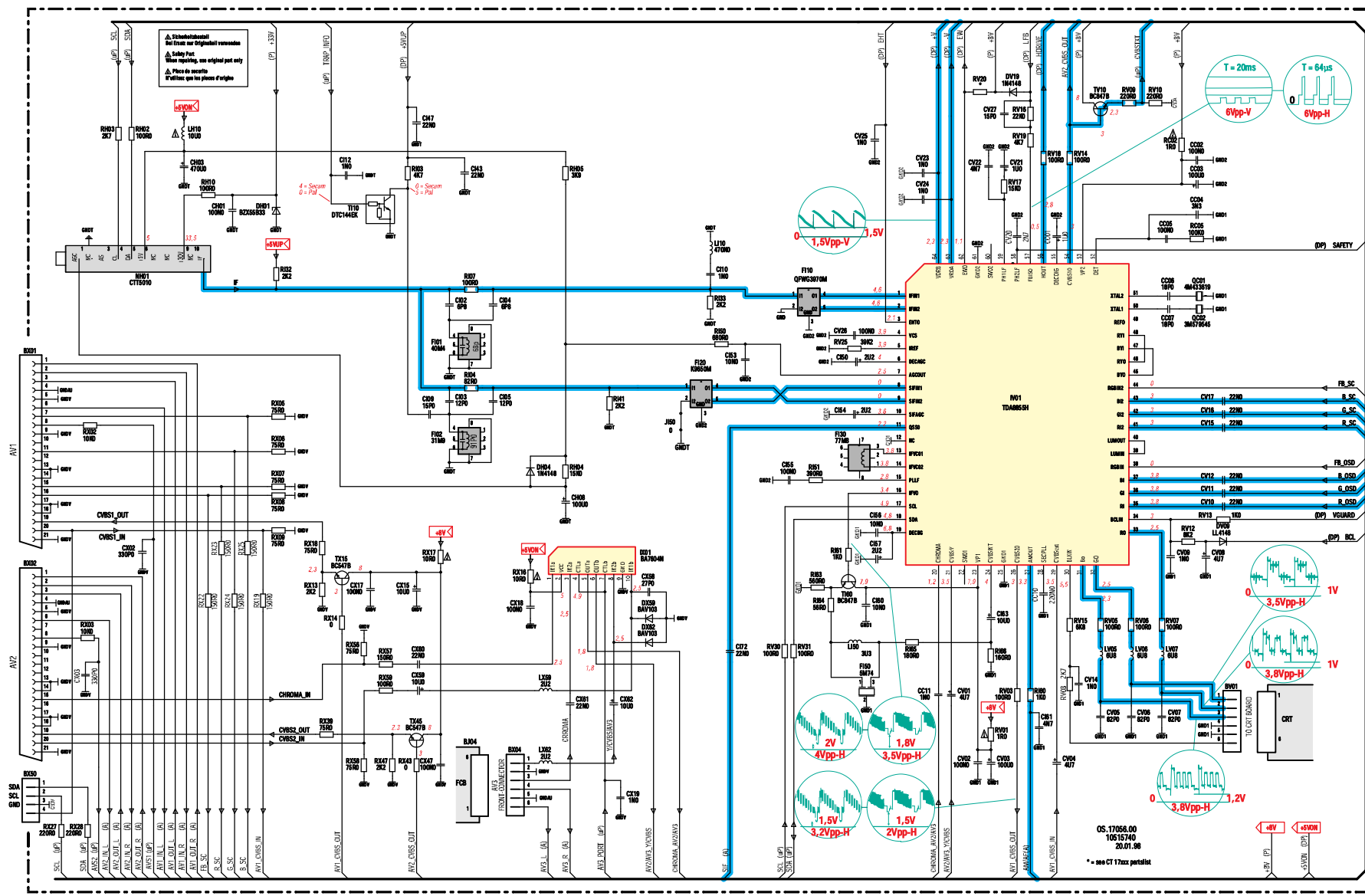
ICC17
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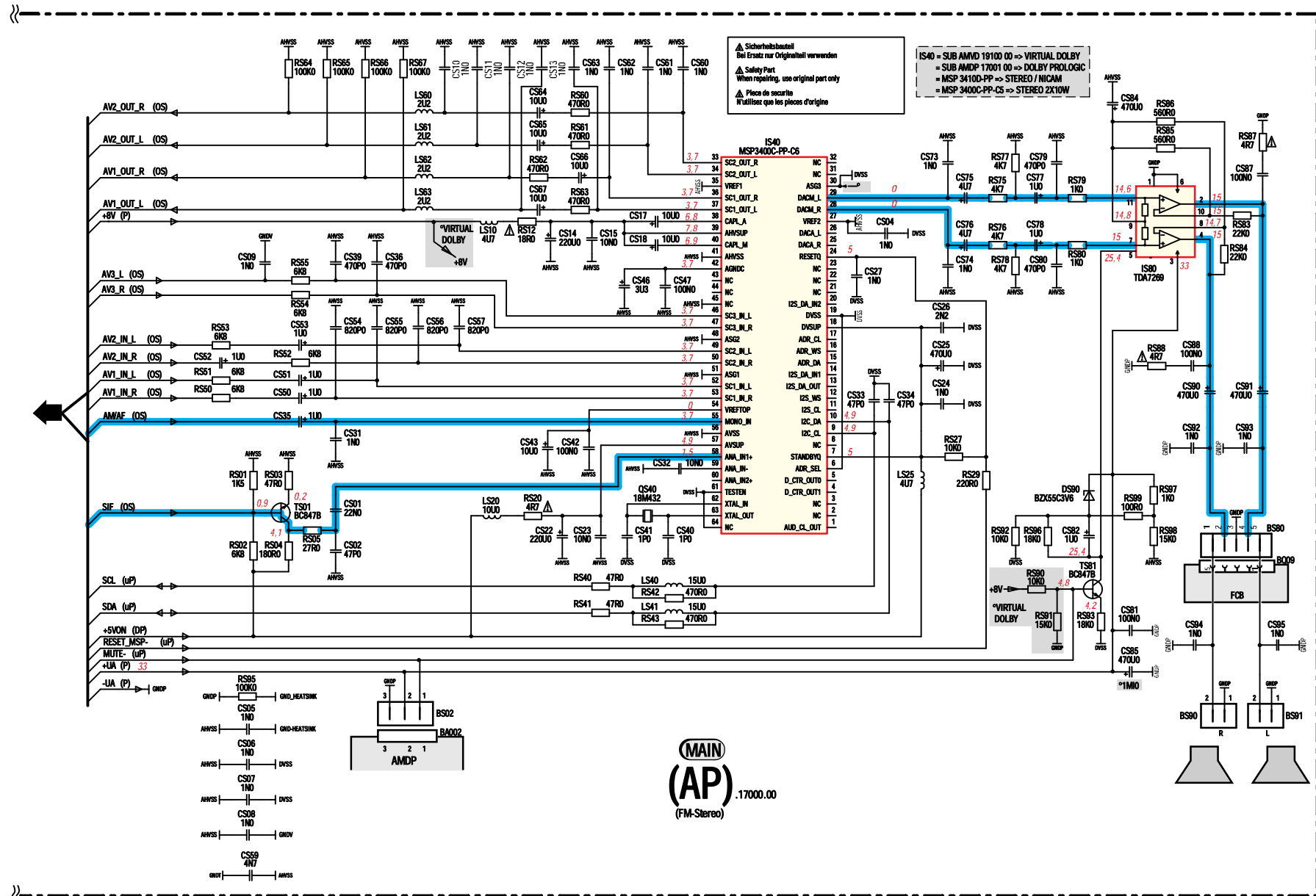
**RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO
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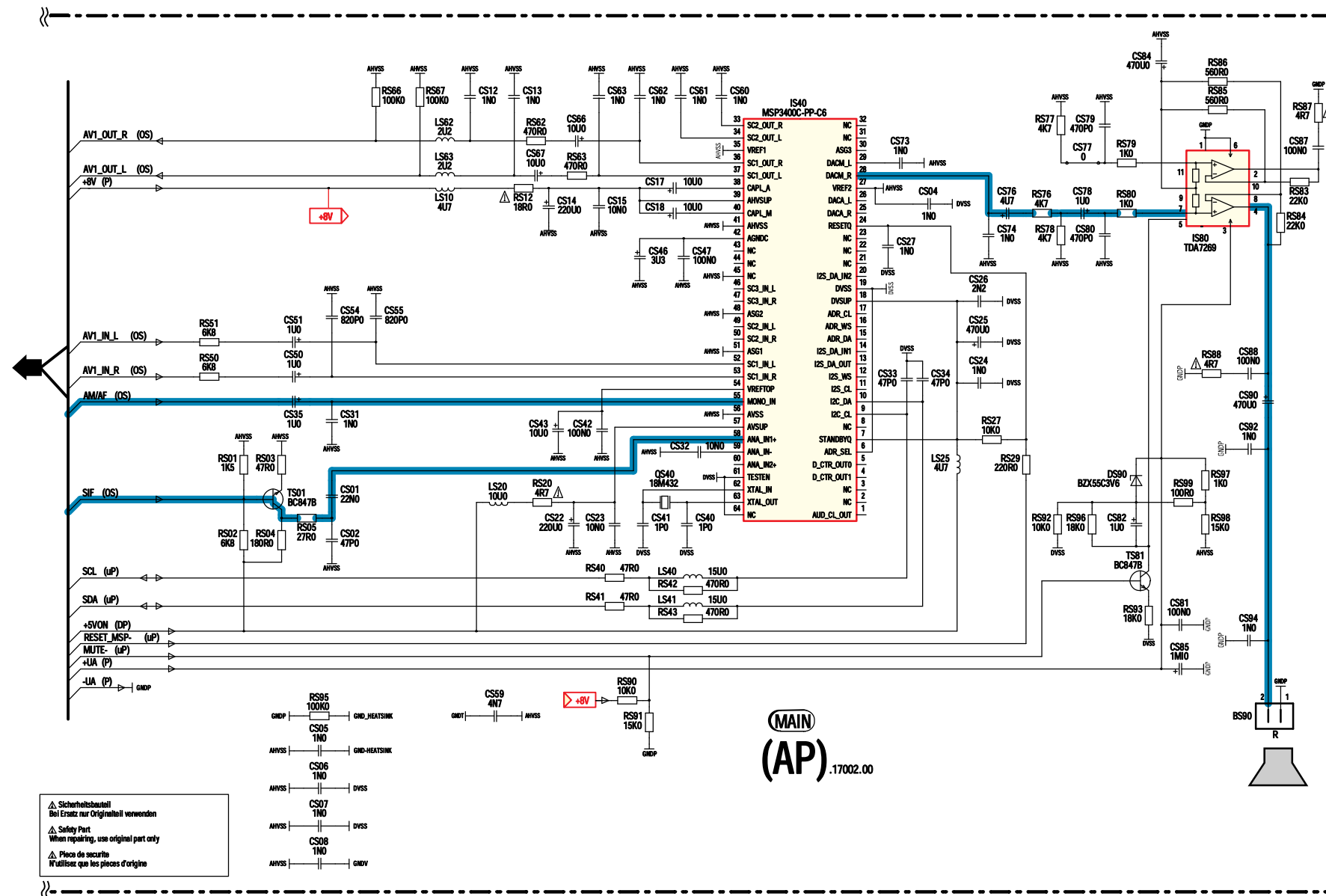
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**AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)**

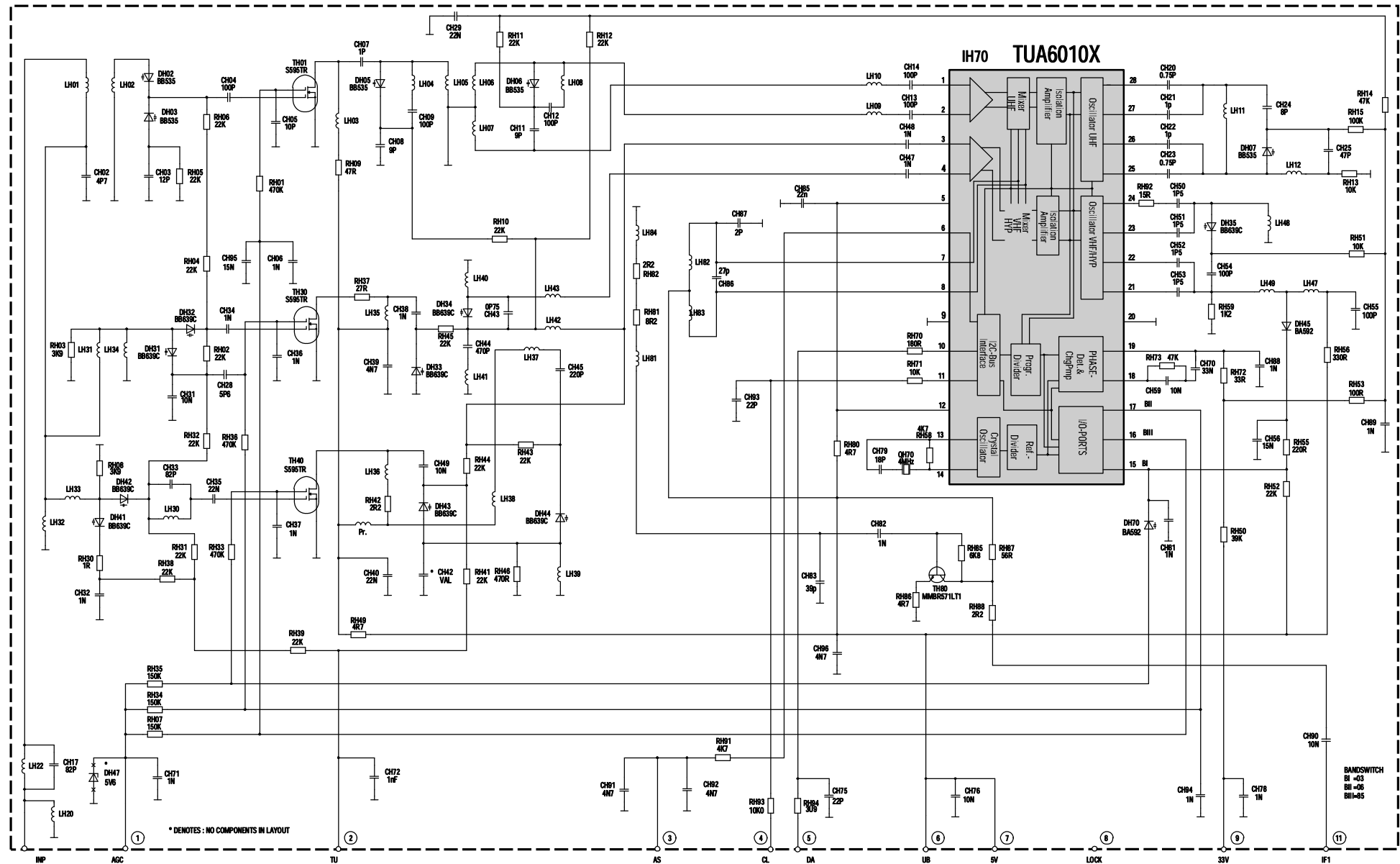


AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR (MONO)

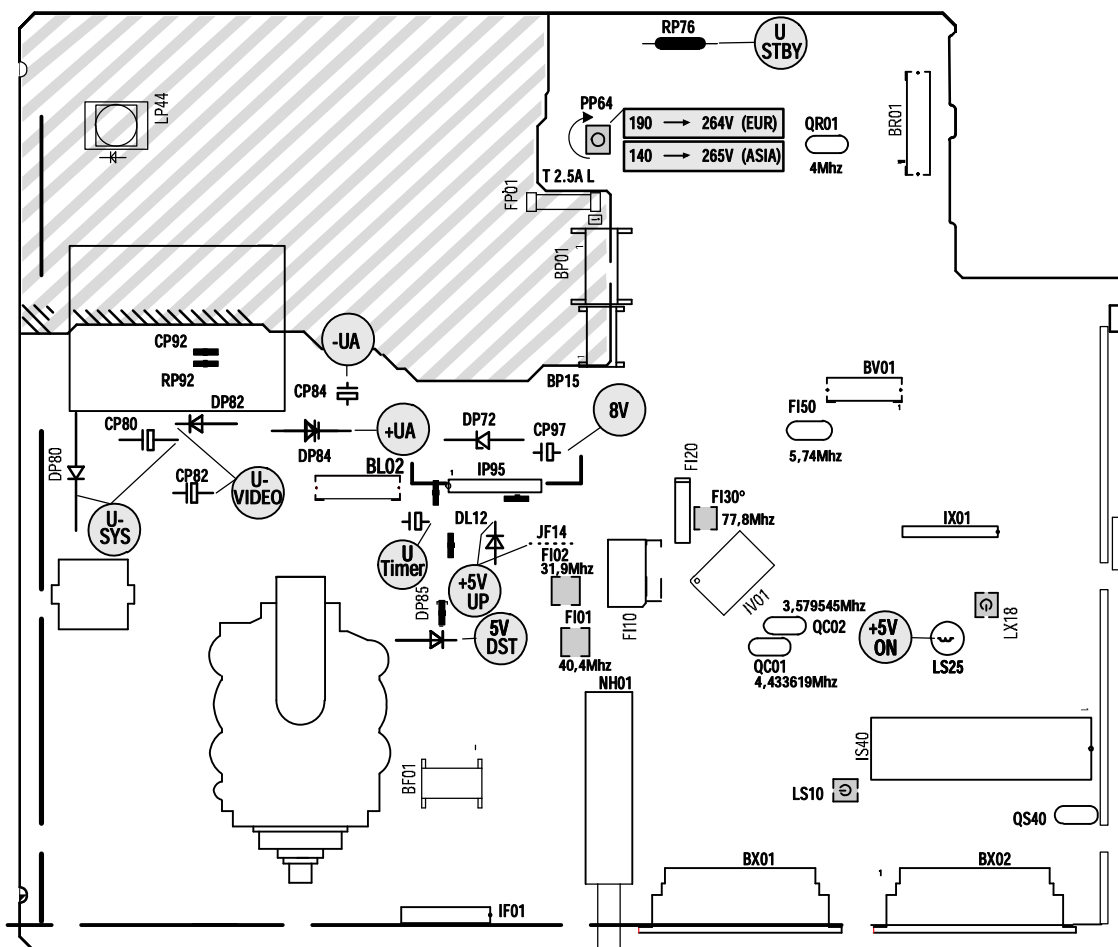


VHF / UHF TUNER CTT5010

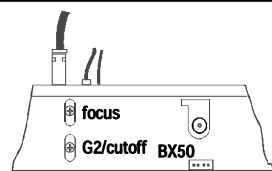
(For information only)



LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



° it is not necessary , to adjust F130 by after sales



Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.



Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

U Sys	PP 64			<table border="1"> <thead> <tr> <th>Tube</th><th>Format</th><th>Usys</th><th>Jumper</th><th>RL65</th></tr> </thead> <tbody> <tr> <td>A51EFS83X191</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr> <td>A59EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24k</td></tr> <tr> <td>A66EHJ43X15</td><td>4:3</td><td>132V+/-0,5V</td><td>JL81</td><td>24k</td></tr> <tr> <td>A59EGD048X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr> <td>A68EGD038X30</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr> <td>A68AGA25X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr> <td>A80AEJ15X01</td><td>4:3</td><td>126V+/-0,5V</td><td>JL80</td><td>4k7</td></tr> <tr> <td>W56EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr> <tr> <td>W66EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr> <tr> <td>W76EGV023X015</td><td>16:9</td><td>138V+/-0,5V</td><td>JL82</td><td>47k</td></tr> </tbody> </table>	Tube	Format	Usys	Jumper	RL65	A51EFS83X191	4:3	126V+/-0,5V	JL80	4k7	A59EHJ43X15	4:3	132V+/-0,5V	JL81	24k	A66EHJ43X15	4:3	132V+/-0,5V	JL81	24k	A59EGD048X30	4:3	126V+/-0,5V	JL80	4k7	A68EGD038X30	4:3	126V+/-0,5V	JL80	4k7	A68AGA25X01	4:3	126V+/-0,5V	JL80	4k7	A80AEJ15X01	4:3	126V+/-0,5V	JL80	4k7	W56EGV023X015	16:9	138V+/-0,5V	JL82	47k	W66EGV023X015	16:9	138V+/-0,5V	JL82	47k	W76EGV023X015	16:9	138V+/-0,5V	JL82	47k
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IF Alignment Alignement FI	trap 40,4Mhz FI 01	Switch set to standard BG Commuter le TV au standard BG IF Signal 40,4MHz (BG) 31,9MHz (BG)		Adjust FI01 for minimum value at 40,4Mhz																																																							
	trap 31,9Mhz FI 02	50 mV 		Adjust FI20 for minimum value at 31,9Mhz																																																							
U G2 / cutoff	SCREEN	 AV (no Signal, black screen)																																																									
FOCUS	FOCUS LL05	Test pattern (standard values)		Sharp picture																																																							

I - ENTER/EXIT SERVICE MODE - ENTREE/SORTIE DU MODE SERVICE

1 ACCESSING THE SERVICE MODE

TV Control Panel Access

- Switch the TV into "Standby" mode by pressing the Standby button on the RCU.
- Switch "OFF" the mains supply to the TV and wait for the LED to extinguish.
- Whilst holding depressed the PR - and VOL- (8s), switch "ON" the mains supply to the TV.
- Once initialised, the Main Service Menu will appear on the screen of the TV.

Soft-Ver. V1.00-0 0080
 Config. A5- - -N
 Serial-No. 103465071

▷ QUIT
 TUBE
 SETUP
 GEOMETRY
 VIDEO
 IF

Please Note:

In the service mode :

- The CHILD LOCK function is re-initialised. The LOCK function (PIN number) is ignored.
- All Wake-up/Sleep timer settings are CLEARED.
- SCART socket pin 8 switching voltages are ignored.
- AV-Link, WSS Detection, EPG and TELETEXT functions are disabled.
- Automatic standby mode switching functions (no signal conditions) are disabled.
- Brightness, Colour and Contrast are set to factory defaults.
- Sharpness settings are set to MID position.
- Contrast Expand is set to LOW.
- Automatic INSTALL mode is disabled.
- FORMAT and ZOOM are reset to factory defaults.

2 TEMPORARY EXIT FROM SERVICE MODE

- Press the "EXIT" button on the RCU.
- Pressing the "MENU" button on the RCU will activate the customer menus.

- The Service Menu can be re-entered by pressing the "BLUE" button on the RCU.

3 EXITING FROM SERVICE MODE

Remote Control

TV Control Panel

ON/OFF key or "Stand-by" buttons

- Select the "QUIT" line of the "Main Service Menu".

- Press «<», «OK» or «>» button

- Press «VOL.+» button

- TV mode.

Values or adjustment not "STORED" before exiting the service mode will NOT be "SAVED" in the NVM.

1 ACCES AU MODE SERVICE

Accès avec le clavier du téléviseur

- Commuter le téléviseur en position de veille avec la télécommande. Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- Tout en appuyant sur les touches PR - et VOL - , mettre le TV en service à l'aide de la touche M/A.
- Maintenir enfoncées les touches PR - et VOL - . (8s)
 Le menu suivant apparaît.

Soft-Ver. V1.00-0 0080
 Config. A5- - -N
 Serial-No. 103465071

▷ QUIT
 TUBE
 SETUP
 GEOMETRY
 VIDEO
 IF

Note :

En mode service:

- Le verrouillage parental est effacé (réinitialisé).
- La fonction de verrouillage (Pin number) est ignorée.
- La programmation des heures «réveille/matin» est annulée.
- Possibilité de passer en mode service avec commutation lente active.
- AV- Link , la détection WSS, l'EPG et le Vidéotexte ne sont pas validés.
- La fonction de stand-by automatique en cas d'absence de signal d'antenne n'est pas validée.
- Les valeurs de réglages usine sont affectées au contraste, à la couleur et à la lumière.
- Le contour est appelé à sa valeur moyenne.
- L'expansion contraste est au niveau bas.
- Le mode «ambiance «Light sensor» n'est pas valides.
- Zoom et format ignorées.

2 SORTIE TEMPORAIRE DU MODE SERVICE

- Utiliser la touche Exit de la télécommande.
- Le menu utilisateur peut être accessible via la touche «Menu».

- Pour entrer à nouveau dans le mode service utiliser la touche bleue.

3 SORTIE DEFINITIVE DU MODE SERVICE

télécommande

clavier du téléviseur

Inter M/A ou Stand-by

- Aller au point «QUIT» dans le menu principal du mode service.

- Appuyer sur «<», «OK» ou «>»

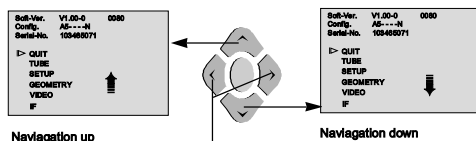
- Appuyer sur «VOL.+»

- Mode TV.

Les valeurs ou réglages non mémorisées avant la sortie ne seront pas écrites en NVM.

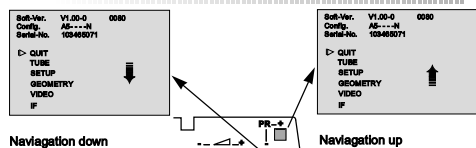
II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE FUNCTIONS WALLIN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO

1 REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG TELECOMANDO - MANDO A DISTANCIA



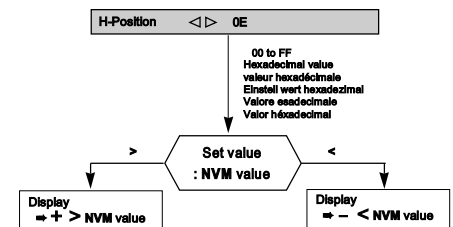
- Select option
- Option auswählen
- Selezionare l'opzione
- Seleccionar opción
- "Change" value
- Wert "Ändern"
- "Cambiare" valore
- "Cambiar" valor

2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISORE



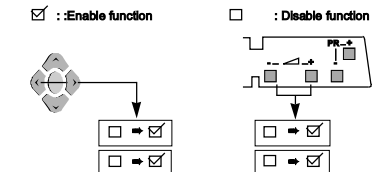
- Select option
- Option auswählen
- Selezionare l'opzione
- Seleccionar opción
- "Change" value
- Wert "Ändern"
- "Cambiare" valore
- "Cambiar" valor

3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES VALEURS - ANZEIGE DES EINSTELL WERTS VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - VISUALIZACION DEL VALOR DE AJUSTE



4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EIN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI COMMUTAZIONE - FUNCION CONMUTACION

To enable a function check ☒ the box.
Pour valider une fonction cocher ☒ la case correspondante
Zum Implementieren einer Funktion das Kontrollkästchen ☒ aktivieren (ankreuzen)
Per implementare una funzione di verifica, (vistare) ☒ la casella
Para poner en funcionamiento una función verifique (señale) ☒ la casilla



5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN DER WERTE - MEMORIZZAEZ I VALORI - VALORES ALMACENADOS EN LA MEMORIA

After setting, the values are stored in NVM.
Après réglages les valeurs sont mémorisées en NVM.
Nach dem Einstellen werden die Werte in NVM gespeichert.
Dopo la regolazione i valori vengono memorizzati in NVM.
Después del ajuste, los valores son almacenados en NVM

The box ☐ becomes ☒
During alignment, values are temporarily stored in RAM.
En cours d'alignement les valeurs sont mémorisées temporairement en RAM
Während des Abgleichs werden die Werte vorübergehend in RAM gespeichert
Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM
Durante el ajuste, los valores son almacenados temporalmente en RAM

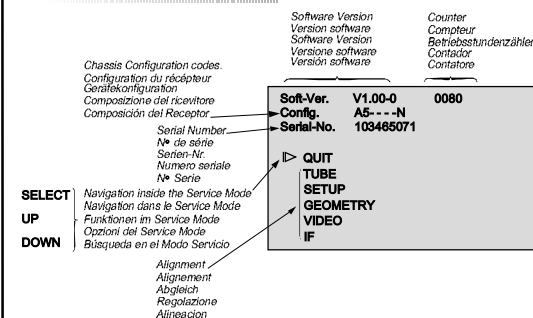
Store ➡ Copies RAM values into NVM
Copie la valeur RAM en NVM
Kopieren des Werts von RAM nach NVM
Copiare i valori RAM in NVM
Copiar valores RAM en NVM

Restore ➡ Copies all values from NVM into RAM.
Copie toutes les valeurs des données NVM en RAM
Kopiert alle NVM-Datenwerte in den RAM
Copiare tutti i valori da NVM sulla RAM
Copiar todos los valores de NVM a RAM

ROM Default ➡ All the default values of a page in use are stored in RAM.
L'ensemble des valeurs par défaut d'une page courante est chargé en RAM.
Sämtliche Standardwerte der aktuellen Seite werden in RAM geladen
Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM
Todos los valores por defecto de la página en curso están almacenados en RAM.

III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE

1 MAIN MENU - MENU PRINCIPAL



TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURAZIONE DEL TV - CONFIGURACIÓN DEL TV

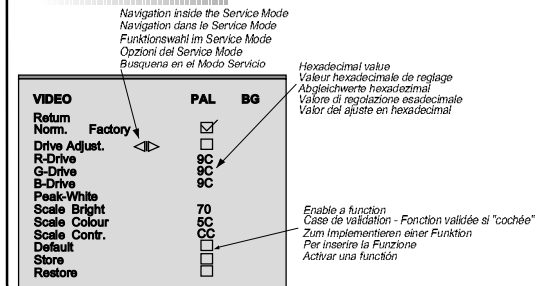
Config.	A1Z-DKC
Character 1 : Tube type : «A»= 4/3 , «W»=16/9	
Character 2 : Chassis type : «S» = 50Hz,	
Character 3 : Zoom available : «Z»=yes, «-»=not	
Character 4 : Ambient Sensor : «S»= detected, «-»= not	
Character 5 : Dolby : «D»=detected, «-»= not	
Character 6 : AV Link detected : «K»=IR link detected, «-»= not	
Character 7 : Chassis Variant: «N»= Nicam, «S»=Stereo	

Serial-N0.	A18
Character 1 : Factory : «A»= Angers , «C» =Celle, «T»=Tarancon	
Character 2 : Year : «G» = 1996, «H»= 1997 etc..	
Character 3 : Month, from : «1»=January to «C»=December	
Character 4-9 : Serial N0.	

TIME COUNTER - COMPTEUR DE TEMPS - BETRIEBSSTUNDENZÄHLER - CONTADOR - CONTADOR

The counter indicates the TV's number of service hours. It counts from 0 to 65535 hours.
The display is hexadecimal.
Le compteur de temps indique le nombre d'heures de service du TV. Il compte de 0 à 65535 heures. L'affichage est en hexadécimal.
Der Zähler zeigt an, wieviele Stunden der Fernseher in Betrieb ist. Die Anzeige ist hexadécimal.
Il contatore indica il numero di ore di servizio del TV. Può contatore da 0 a 65535. La visualizzazione è esadecimale.
El contador indica el número de horas de servicio de la TV. Cuenta de 0 a 65535 horas. El visualizador es hexadecimal.

2 SUBMENU - SOUS-MENU



TUBE
Return
Tube type
Store A08ECY...
 ◀▶ ☒
Restore ☐

SETUP		
Return		
Clear	Progr.	▶
Kbd.	Config.	Default
WSS		☐
Default		☐
Store		☐
Restore		☐

GEOMETRY	
Return	7C
V-Slope	8C
V-Amplitude	7C
V-Position	☐
Blanking On	☐
S - Correction	64
H-Position	94
H-Amplitude	70
EW-Amplitude	78
EW-Trapezium	96
Default	☐
Store	☐
Restore	☐

VIDEO		PAL	BG
Return Norm.		☒	
Drive Adjust.		☐	
R-Drive		9C	
G-Drive		8C	
B-Drive		9C	
Peak-White		70	
Scale Bright		6C	
Scale Colour		0C	
Scale Contr.		☐	
Default		☐	
Store		☐	
Restore		☐	

IF	
Return	
AGC Take Over	◀▶ 88
FFI - Bit	☐
Default	☒
Store	☒
Restore	☒

4/3 picture tube

Signal : 4/3 test pattern

TURN
 Ouvre le sub-menus et retourne le "Main menu" (le "Menu principal") ou le "RCU" ou "VOL/VOL-ON" en tout temps.
 Retourne au menu principal.
 Ouvre le sub-menu "Service" qui comprend des services utiles enregistrés.
 Ouvre l'édition pour y apporter le menu "Service" et les services utiles.
 Ouvre le sub-menu. Le menu "Find Service" permet de trouver les services utiles.
 Press <+>: retour. Volt. <+>: TV length.

Tube type
 After replacing the NVM, the correct tube type must be entered (see 3. chapter).
 Once entered, the tube type and video default values are immediately activated.
 The NVM contains the video type and the values are written to the NVM when the "STORE" key is hit.
 See table below for tube type numbers.

Define the tube exact active charge mode
 Définir le tube exact après chargement de la NVM.
 Une fois les valeurs de tubes (avec le voltage et géométrie) sont actives de suite.
 Les paramètres de vidéo et de géométrie sont activés de suite.
 La NVM contient les données de tubes et les valeurs sont écrites dans la NVM lorsque la touche "STORE" est actionnée.
 Voir le tableau ci-dessous.

Nach Wechsel des NVM den Bildröhrentyp (3. Ziffern) definieren. Die neuen Geometrie- und Video-defaults werden sofort aktiviert. Variable
 Die NVM-Werte werden sofort aktiviert.
 Spätestens nach "STORE" ins NVM geschrieben.
 Bildröhrentyp: siehe unten.

Sequencia 1 tubo apropriado após aver substituído o tubo e a configuração da placa. O novo tipo do tubo, (chamamos 1º, 2º, 3º e 4º) e geometria do vídeo são gravados na NVM e os valores de vídeo e geometria são imediatamente ativados.

Le tube correct après le remplacement de la cathode au NVM. Les paramètres de vidéo et de géométrie sont immédiatement activés. Les données de tubes sont écrites dans la NVM lorsque la touche "STORE" est actionnée. Voir le tableau ci-dessous.

[illegible][illegible]

GEOMETRY		
9.Adjust position H.		
9.Regler la position H.		
9.Korrigieren Sie Horizontale Lage.		
9.Regler la position H.		
9.Ajuste la position H.		
10.Ajuster l'amplitude H.		
10.Adjust amplitude H.		
10.Korrigieren Sie Horizontale Amplitude		
10.Regler l'amplitude H.		
10.Ajuste l'amplitude H.		
11-12.Correction of BW absorption distortion.		
11-12.Korrektur der Ovaleffekt Verzerrung.		
11-12.Korrektur della distorsione a cascina BW		
11-12.Korrektur de la distorsión de cascina BW		
13.Correction of corners (Shape).		
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13.Korrektur der Ecken.		
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	Correct	Incorrect
← After setting → Store (S) (✔)		

VIDEO	PAL																																								
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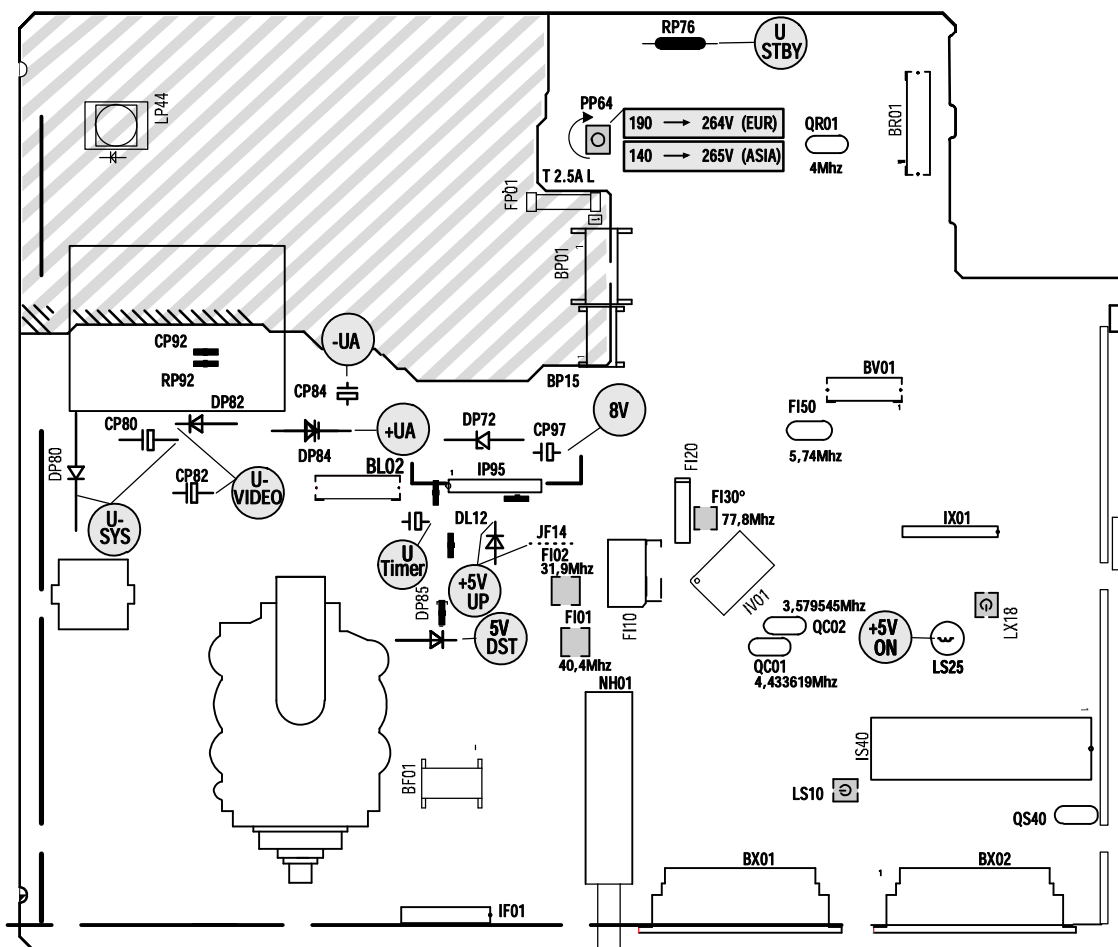
Note :
 * adjust separate for PAL/NTSC/SECAM and RGB/AV
 getrennte Einstellung für PAL/SECAM und RGB/AV
 ** After PEAK white adjustment control cut off setting.
 Repeat the adjustments if necessary.
 Nach der Einstellung von "Peak white" die "Cut off"-
 Einstellungen wiederholen.

16/9 picture tube

Signal : 4/3 test pattern

16 / 8 standard mode zoom 0		overscan V=107%, H=107% 1-Adjust Vertical position and Vertical amplitude 2-Adjust Vertical Blanking and Linearity  3-Adjust Horizontal position and Horizontal amplitude  4-Adjust EW Amplitude, EW Shape and Trapezium 
--	---	---

LOCATION OF CONTROLS - EMBLACEMENT DES REGLAGES - SERVICE LAGEPLAN - POSIZIONE REGOLATORI DI SERVIZIO - SITUACIÓN DE LOS AJUSTES



° it is not necessary, to adjust F130 by after sales

 Part of board connected to mains supply.
Partie du châssis reliée au secteur.
Primärseite des Netzteils.
Parte dello chassis collegata alla rete.
Parte del chassis conectada a la red.

 Use isolating mains transformer -
Utiliser un transformateur isolateur du secteur -
Trenntrafo verwenden -
Utilizar un transformador aislador de red -
Utilizzare un trasformatore per isolarvi dalla rete

ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONI - AJUSTES

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IF Alignment Alignement FI	trap 40,4Mhz FI 01	Switch set to standard BG Commuter le TV au standard BG IF Signal 40,4MHz (BG) 31,9MHz (BG)		Adjust FI01 for minimum value at 40,4Mhz																																																							
	trap 31,9Mhz FI 02	50 mV 		Adjust FI20 for minimum value at 31,9Mhz																																																							
U G2 / cutoff	SCREEN	 AV (no Signal, black screen)																																																									
FOCUS	FOCUS LL05	Test pattern (standard values)		Sharp picture																																																							

I - ENTER/EXIT SERVICE MODE - ENTREE/SORTIE DU MODE SERVICE

1 ACCESSING THE SERVICE MODE

TV Control Panel Access

- Switch the TV into "Standby" mode by pressing the Standby button on the RCU.
- Switch "OFF" the mains supply to the TV and wait for the LED to extinguish.
- Whilst holding depressed the PR - and VOL- (8s), switch "ON" the mains supply to the TV.
- Once initialised, the Main Service Menu will appear on the screen of the TV.

Soft-Ver. V1.00-0 0080
 Config. A5- - -N
 Serial-No. 103465071

▷ QUIT
 TUBE
 SETUP
 GEOMETRY
 VIDEO
 IF

Please Note:

In the service mode :

- The CHILD LOCK function is re-initialised. The LOCK function (PIN number) is ignored.
- All Wake-up/Sleep timer settings are CLEARED.
- SCART socket pin 8 switching voltages are ignored.
- AV-Link, WSS Detection, EPG and TELETEXT functions are disabled.
- Automatic standby mode switching functions (no signal conditions) are disabled.
- Brightness, Colour and Contrast are set to factory defaults.
- Sharpness settings are set to MID position.
- Contrast Expand is set to LOW.
- Automatic INSTALL mode is disabled.
- FORMAT and ZOOM are reset to factory defaults.

2 TEMPORARY EXIT FROM SERVICE MODE

- Press the "EXIT" button on the RCU.
- Pressing the "MENU" button on the RCU will activate the customer menus.

- The Service Menu can be re-entered by pressing the "BLUE" button on the RCU.

3 EXITING FROM SERVICE MODE

Remote Control

TV Control Panel

ON/OFF key or "Stand-by" buttons

- Select the "QUIT" line of the "Main Service Menu".

- Press «<», «OK» or «>» button

- Press «VOL.+» button

- TV mode.

Values or adjustment not "STORED" before exiting the service mode will NOT be "SAVED" in the NVM.

1 ACCES AU MODE SERVICE

Accès avec le clavier du téléviseur

- Commuter le téléviseur en position de veille avec la télécommande. Eteindre le téléviseur par l'interrupteur secteur (attendre l'extinction complète du voyant).
- Tout en appuyant sur les touches PR - et VOL - , mettre le TV en service à l'aide de la touche M/A.
- Maintenir enfoncées les touches PR - et VOL - . (8s)
 Le menu suivant apparaît.

Soft-Ver. V1.00-0 0080
 Config. A5- - -N
 Serial-No. 103465071

▷ QUIT
 TUBE
 SETUP
 GEOMETRY
 VIDEO
 IF

Note :

En mode service:

- Le verrouillage parental est effacé (réinitialisé).
- La fonction de verrouillage (Pin number) est ignorée.
- La programmation des heures «veille/matin» est annulée.
- Possibilité de passer en mode service avec commutation lente active.
- AV- Link , la détection WSS, l'EPG et le Vidéotexte ne sont pas validés.
- La fonction de stand-by automatique en cas d'absence de signal d'antenne n'est pas validée.
- Les valeurs de réglages usine sont affectées au contraste, à la couleur et à la lumière.
- Le contour est appelé à sa valeur moyenne.
- L'expansion contraste est au niveau bas.
- Le mode «ambiance «Light sensor» n'est pas valides.
- Zoom et format ignorées.

2 SORTIE TEMPORAIRE DU MODE SERVICE

- Utiliser la touche Exit de la télécommande.
- Le menu utilisateur peut être accessible via la touche «Menu».

- Pour entrer à nouveau dans le mode service utiliser la touche bleue.

3 SORTIE DEFINITIVE DU MODE SERVICE

télécommande

clavier du téléviseur

Inter M/A ou Stand-by

- Aller au point «QUIT» dans le menu principal du mode service.

- Appuyer sur «<», «OK» ou «>»

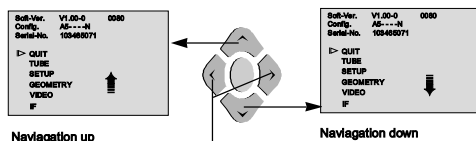
- Appuyer sur «VOL.+»

- Mode TV.

Les valeurs ou réglages non mémorisées avant la sortie ne seront pas écrites en NVM.

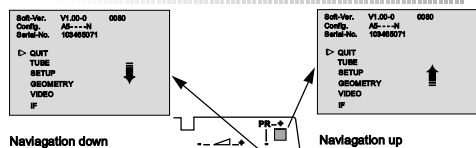
II - NAVIGATION INSIDE THE SERVICE MODE - DEPLACEMENT DANS LE MODE SERVICE FUNCTIONS WALLIN SERVICE MODE - OPZIONI NEL SERVICE MODE - BUSQUEDA EN MODO SERVICIO

1 REMOTE CONTROL - TELECOMMANDE - FERNBEDIENUNG TELECOMANDO - MANDO A DISTANCIA



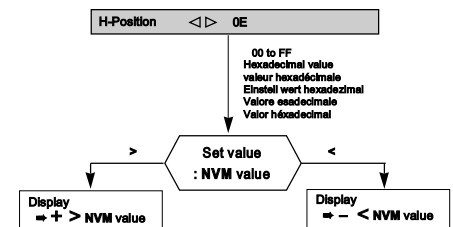
- Select option
- Option auswählen
- Selezionare l'opzione
- Seleccionar opción
- "Change" value
- Wert "Ändern"
- "Cambiare" valore
- "Cambiar" valor

2 TV CONTROL PANEL - CLAVIER TV - TASTATUR DES FERNSEHGERÄTS - COMANDI DEL TELEVISORE



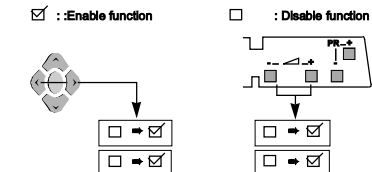
- Select option
- Option auswählen
- Selezionare l'opzione
- Seleccionar opción
- "Change" value
- Wert "Ändern"
- "Cambiare" valore
- "Cambiar" valor

3 DISPLAYING THE VALUE OF THE SETTING - AFFICHAGE DES VALEURS - ANZEIGE DES EINSTELL WERTS VISUALIZZAZIONE DEL VALORE DELLA REGOLAZIONE - VISUALIZACION DEL VALOR DE AJUSTE



4 TOGGLE FUNCTIONS - VALIDATION DES FONCTIONS EIN-UND AUSSCHALT FUNKTIONEN - FUNZIONI DI COMMUTAZIONE - FUNCION CONMUTACION

To enable a function check ☒ the box.
Pour valider une fonction cocher ☒ la case correspondante
Zum Implementieren einer Funktion das Kontrollkästchen ☒ aktivieren (ankreuzen)
Per implementare una funzione di verifica, (vistare) ☒ la casella
Para poner en funcionamiento una función verifique (señale) ☒ la casilla



5 STORING VALUES IN MEMORY - MEMORISATION DES VALEURS - SPEICHERN DER WERTE - MEMORIZZAEZ I VALORI - VALORES ALMACENADOS EN LA MEMORIA

After setting, the values are stored in NVM.
Après réglages les valeurs sont mémorisées en NVM.
Nach dem Einstellen werden die Werte im NVM gespeichert.
Dopo la regolazione i valori vengono memorizzati in NVM.
Después del ajuste, los valores son almacenados en NVM

The box ☐ becomes ☒
During alignment, values are temporarily stored in RAM.
En cours d'alignement les valeurs sont mémorisées temporairement en RAM
Während des Abgleichs werden die Werte vorübergehend im RAM gespeichert
Durante l'allineamento i valori vengono memorizzati provvisoriamente sulla RAM
Durante el ajuste, los valores son almacenados temporalmente en RAM

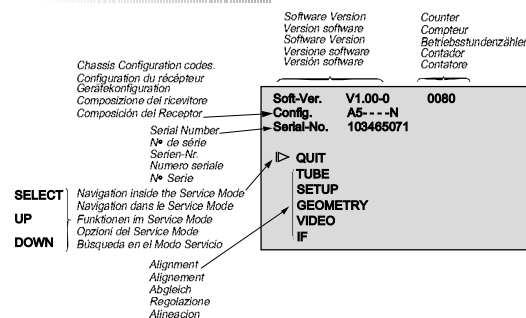
Store ➡ Copies RAM values into NVM
Copie la valeur RAM en NVM
Kopieren des Werts von RAM nach NVM
Copiare i valori RAM in NVM
Copiar valores RAM en NVM

Restore ➡ Copies all values from NVM into RAM.
Copie toutes les valeurs des données NVM en RAM
Kopiert alle NVM-Datenwerte in den RAM
Copiare tutti i valori da NVM sulla RAM
Copiar todos los valores de NVM a RAM

ROM Default ➡ All the default values of a page in use are stored in RAM.
L'ensemble des valeurs par défaut d'une page courante est chargé en RAM.
Sämtliche Standardwerte der aktuellen Seite werden im RAM geladen
Tutti i valori di default di una pagina in uso vengono memorizzati sulla RAM
Todos los valores por defecto de la página en curso están almacenados en RAM.

III - LITE-MENU FOR FIELD SERVICE MODE - MENUS DU MODE SERVICE

1 MAIN MENU - MENU PRINCIPAL



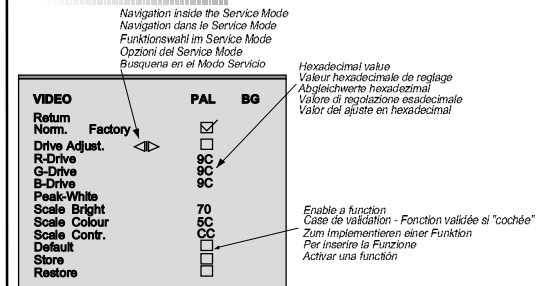
TV CONFIGURATION - CONFIGURATION DU TV - GERÄTEKONFIGURATION - CONFIGURAZIONE DEL TV - CONFIGURACIÓN DEL TV

Config.	A1Z-DKC
Character 1 : Tube type : «A»= 4/3 , «W»=16/9 Character 2 : Chassis type : «S» = 50Hz, Character 3 : Zoom available : «Z»=yes, «-»=not Character 4 : Ambient Sensor : «S»= detected, «-»= not Character 5 : Dolby : «D»=detected, «-»= not Character 6 : AV Link detected : «K»=IR link detected, «-»= not Character 7 : Chassis Variant: «N»= Nicam, «S»=Stereo	
Serial-N0.	A18---
Character 1 : Factory : «A»= Angers , «C» =Celle, «T»=Tarancon Character 2 : Year : «G» = 1996, «H»= 1997 etc.. Character 3 : Month, from : «1»=January to «C»=December Character 4-9 : Serial N0.	

TIME COUNTER - COMPTEUR DE TEMPS - BETRIEBSSTUNDENZÄHLER - CONTADOR - CONTADOR

The counter indicates the TV's number of service hours.It counts from 0 to 65535 hours.
The display is hexadecimal.
Le compteur de temps indique le nombre d'heures de service du TV. Il compte de 0 à 65535 heures. L'affichage est en hexadécimal.
Der Zähler zeigt an, wieviele Stunden der Fernseher in Betrieb ist. Die Anzeige ist hexadécimal.
Il contatore indica il numero di ore di servizio del TV. Può contatore da 0 a 65535. La visualizzazione è esadecimale.
El contador indica el número de horas de servicio de la TV. Cuenta de 0 a 65535 horas. El visualizador es hexadecimal.

2 SUBMENU - SOUS-MENU



TUBE
Return
Tube type
Store
Restore

ASSECY...

◀▶ ☒
☐

SETUP		
Return		
Clear	Progs.	▶
Kbd.	Config.	Default
WSS		☐
Default		☐
Store		☐
Restore		☐

GEOMETRY	
Return	7C
V-Slope	8C
V-Amplitude	7C
V-Position	☐
Blanking On	☐
S - Correction	64
H-Position	94
H-Amplitude	76
EW-Amplitude	70
EW-Trapezium	96
Default	☐
Store	☐
Restore	☐

VIDEO		PAL	BG
Return Norm.	Factory	☒	☐
Drive Adjust.		☐	☐
R-Drive		9C	☐
G-Drive		9C	☐
B-Drive		9C	☐
Peak-White			☐
Scale Bright		70	☐
Scale Colour		6C	☐
Scale Contr.		0C	☐
Default			☐
Store			☐
Restore			☐

IF	
Return	
AGC Take Over	 88
FFI - Bit	☐
Default	☒
Store	☒
Restore	☒

4/3 picture tube

Signal : 4/3 test pattern

[illegible][illegible][illegible]

GEOMETRY		
9.Adjust position H.		
9.Regler la position H.		
9.Korrigieren Sie Horizontale Lage.		
9.Regler la position H.		
9.Ajuste la posición H.		
10.Ajuster l'amplitude H.		
10.Adjust amplitude H.		
10.Korrigieren Sie Horizontale Amplitude		
10.Regler l'amplitude H.		
10.Ajuste l'amplitude H.		
11-12.Correction of BW shadowing distortion.		
11-12.Korrektur der Outline/Kantenverzerrung.		
11-12.Korrektur della distorsione a cascina BW		
11-12.Korrektur de la distorsión de cascina BW		
13.Correction of corners (Shape).		
13.Correction de coins (Shape)		
13.Corrección de esquinas (Shape)		
13.Korrektur der Ecken.		
14.Trapez-Verzerrung.		
14.Trapazo / Trapecio		
These adjustments are not necessary for 43 tubes in 16:9 mode "Pour les tubes 43 en mode 16:9, ces réglages ne sont pas nécessaires" "Diese Einstellungen sind nicht für 43 Bildröhren im 16:9 Betrieb erforderlich." "Questi regolaggi non sono necessari per tubi 43 in modo 16/9" "Estos ajustes no son necesarios para los tubos 43 en modo 16/9"		
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	Correct	Incorrect
← After setting → Store (S) →		

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Best. Brightness	  Gray scale test pattern white = 100%																																																			
Best. Colour	  Gray scale test pattern white = 100%																																																			
PAL (from SECAM) + RGB 75% Colour bar test pattern via RF.																																																				
Best. Contrast factory settings.																																																				

IF

AGC



- Minimum noise - Minimum de br t
- Minimum Rauschen - Rumora minim 
- Minimum ruido

FFI - BH

Fast filter (F /PLL)

Filter rapido (F /PLL)

Scheele's filter (ZF-PLL)

Filtro rapido (F /PLL)

☒ Auto

☐ Bump

Note :
 * adjust separate for PAL/NTSC/SECAM and RGB/AV
 getrennte Einstellung für PAL/SECAM und RGB/AV
 ** After PEAK white adjustment control cut off setting.
 Repeat the adjustments if necessary.
 Nach der Einstellung von "Peak white" die "Cut off"-
 Einstellungen wiederholen.

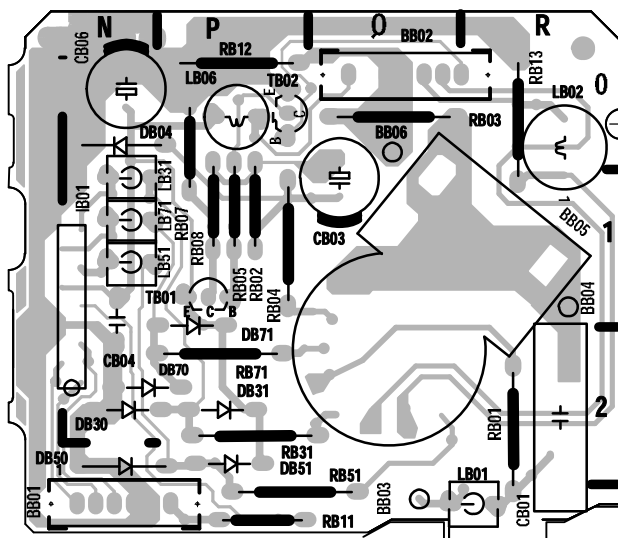
16/9 picture tube

Signal : 4/3 test pattern

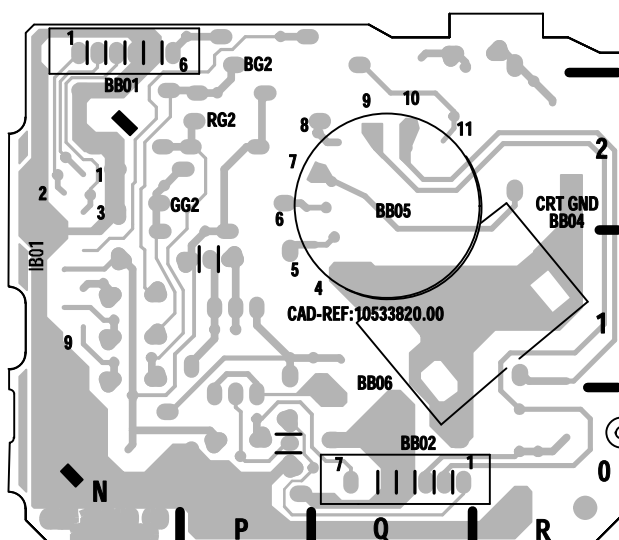
16 / 8 standard mode zoom 0		overscan V=107%, H=107% 1-Adjust Vertical position and Vertical amplitude 2-Adjust Vertical Blanking and Linearity  3-Adjust Horizontal position and Horizontal amplitude  4-Adjust EW Amplitude, EW Shape and Trapezium 
--	---	--

**VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE -
PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO**

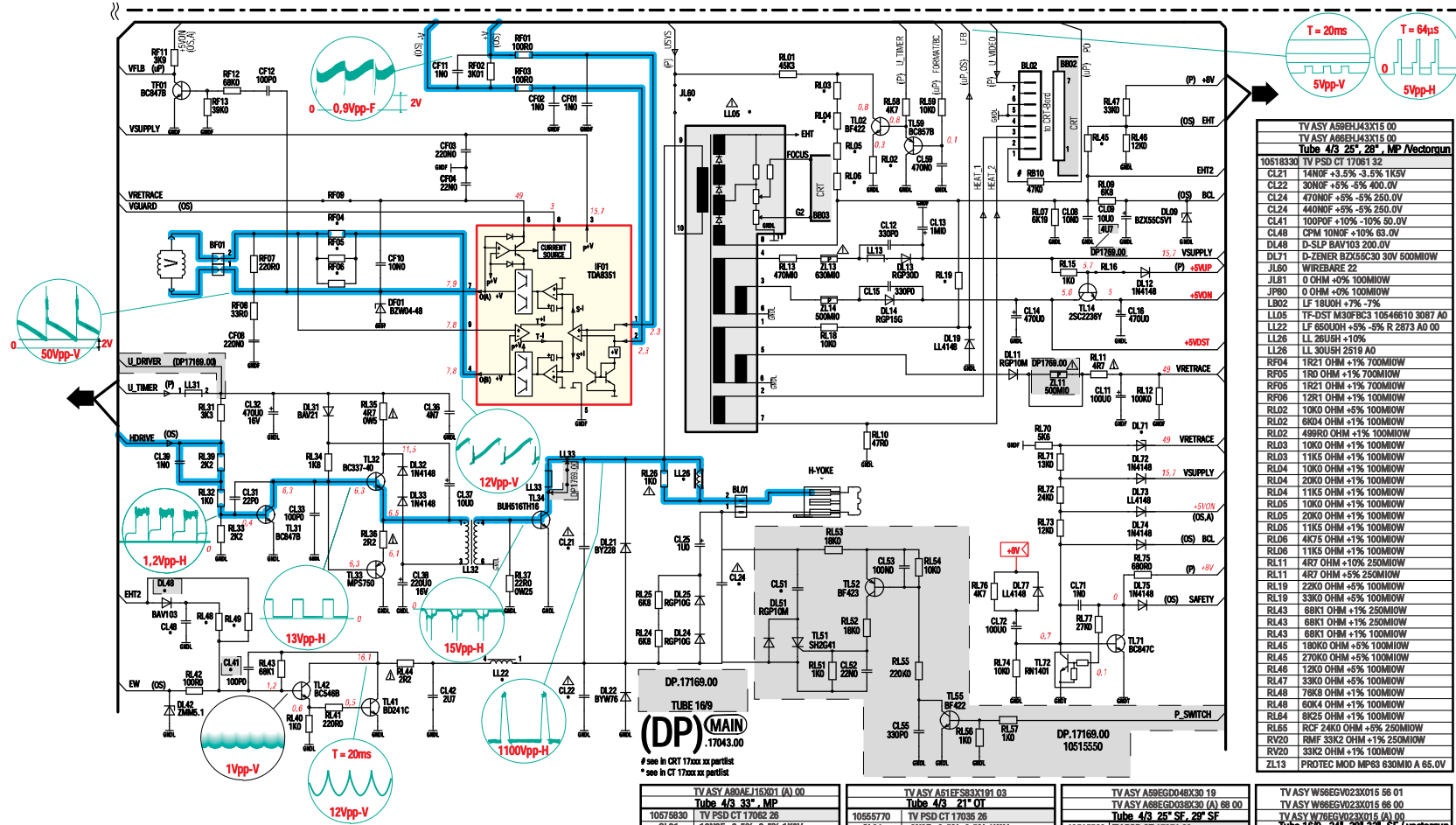
**COMPONENT SIDE - CÔTE COMPOSANTS - BESTÜCKUNGSSEITE -
LATO COMPONENTI - LADO COMPONENTES**



SOLDER SIDE - CÔTE SOUDURES - LÖTSEITE - LATO SALDATURE - LADO SOLDADURAS



SCANNING - BALAYAGE - ABLENKUNG - BARRIDO - SCANSIONE



△ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be guaranteed.

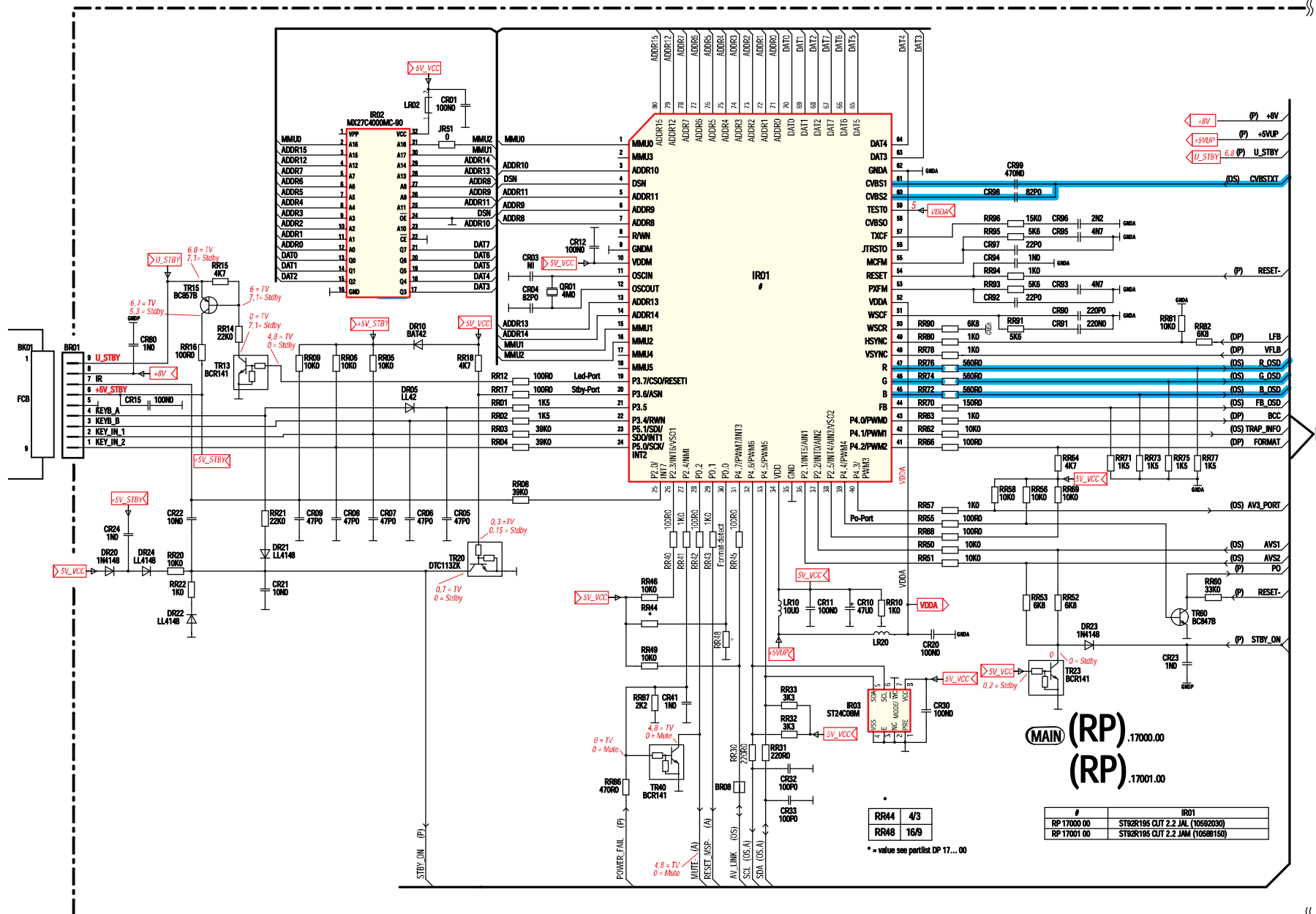
Le remplacement des éléments de sécurité (repérés avec le symbole △) par des composants non homologués selon la Norme CEI 65 entraîne la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol △ gekennzeichnet) durch nicht normgerechte Teile ersetzt werden, erlischt die Haftung des Herstellers.

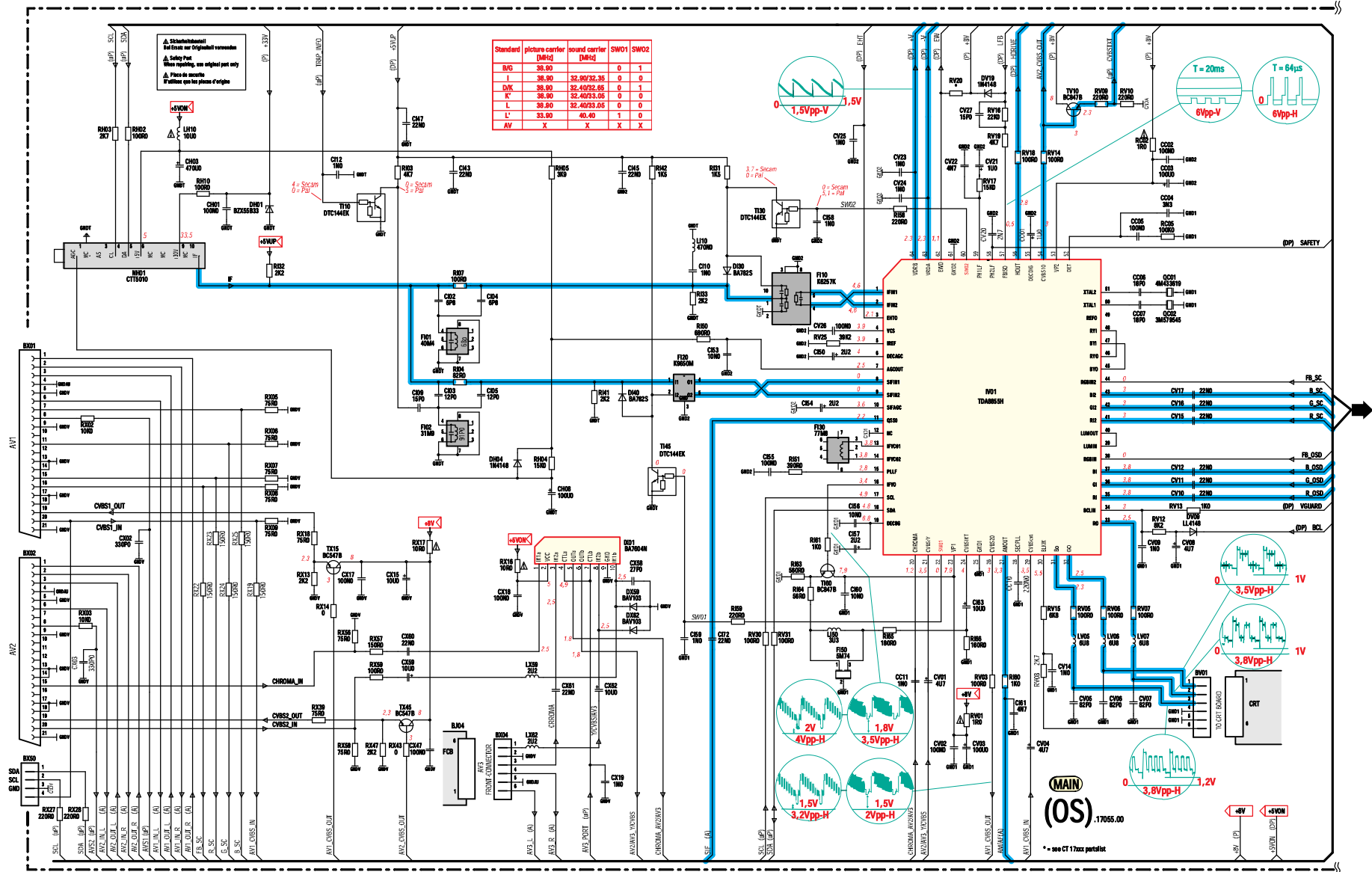
La sostituzione degli elementi di sicurezza (contrassegnati con il segno △) con componenti non omologati secondo la norma CEI 65 comporta la non conformità dell'apparecchio. In tal caso è "esclusa la responsabilità" del costruttore.

La substitución de elementos de seguridad (marcados con el símbolo △) por componentes no homologados según la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

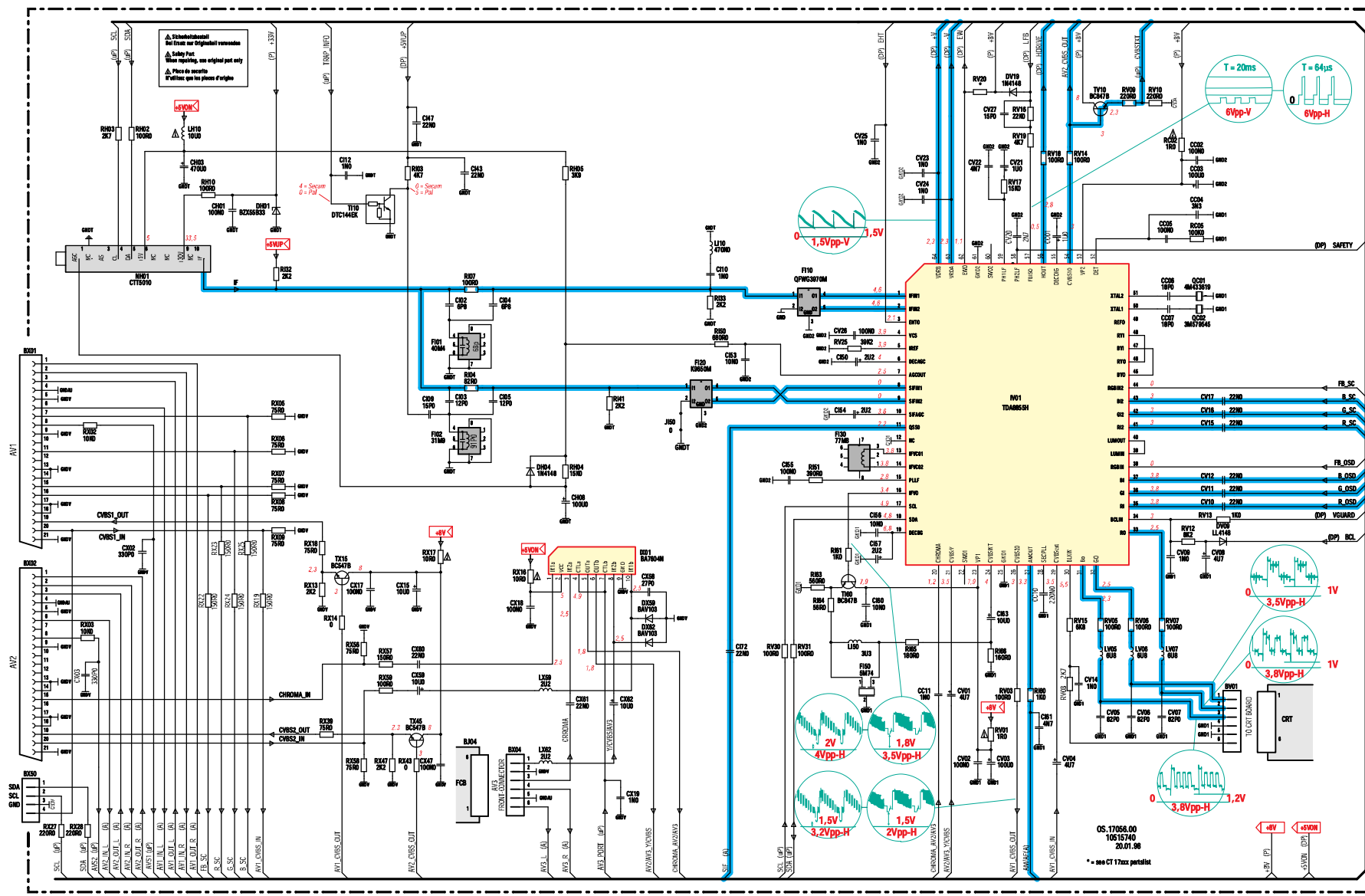
CONTROL MICROPROCESSOR - MICROPROCESSEUR DE COMMANDE - MIKROPROZESSOR - MICROPROCESSORE DEI COMANDI - MICROPROCESADOR DE LOS MANDOS



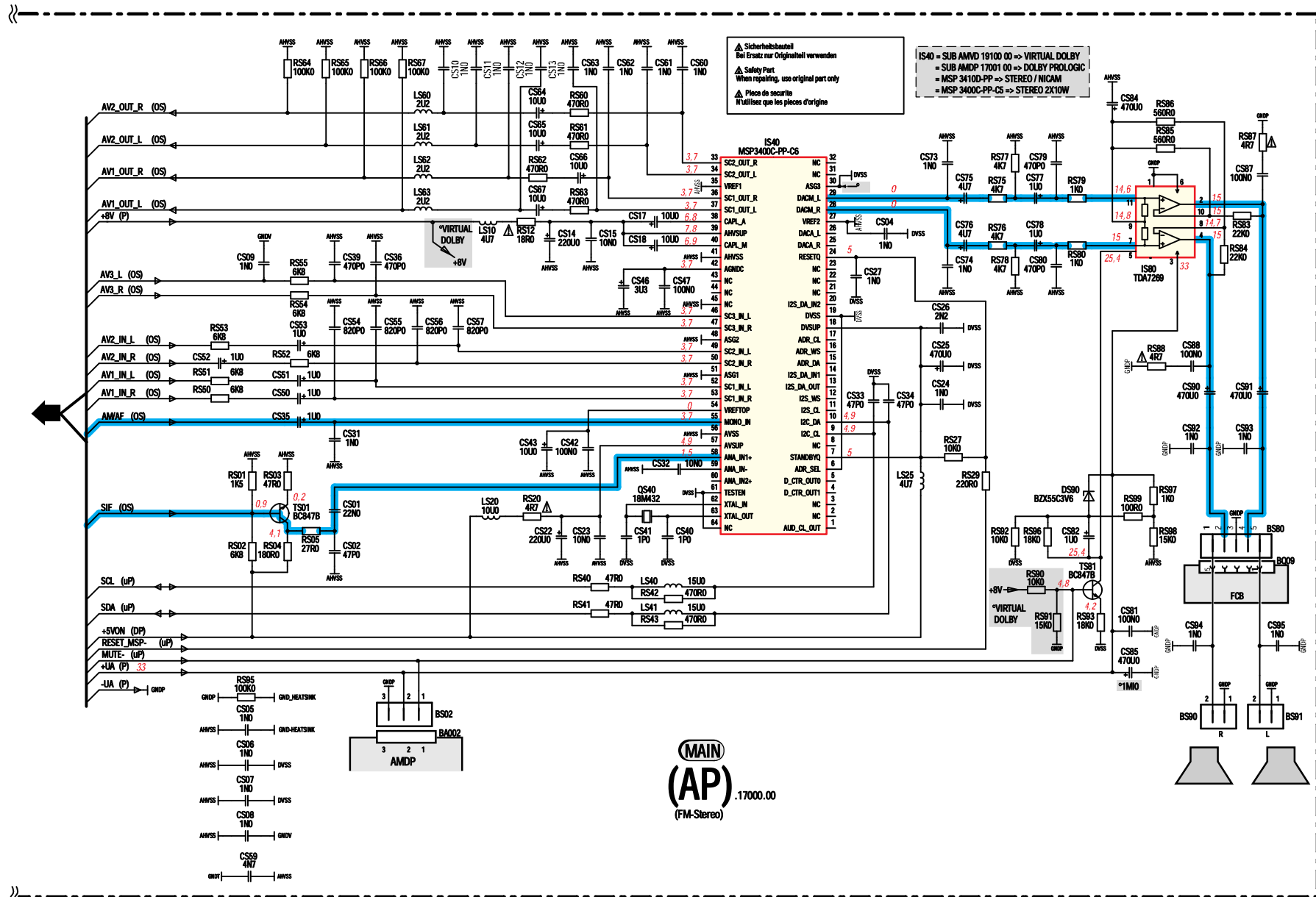
**RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO
SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONNECTOR / TRATAMENTO VIDEO**



RF/FI/ SCART INTERFACE/VIDEO SIGNAL PROCESSING -HF/FI INTERFACE PERITELEVISION/TRAITEMENT LUMINANCE CHROMINANCE - HF/ZF/ SCART INTERFACE/VIDEO SIGNALVERARBEITUNG - RF/FI /PRESA PERITEL/ELABORAZIONE VIDEO - RF/FI /EUROCONECTOR/TRATAMENTO VIDEO



**AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD AUDIO-SIGNALVERARBEITUNG - SCHEMA DELL' AMPLIFICATORE
ESQUEMA DEL AMPLIFICADOR
(STEREO)**



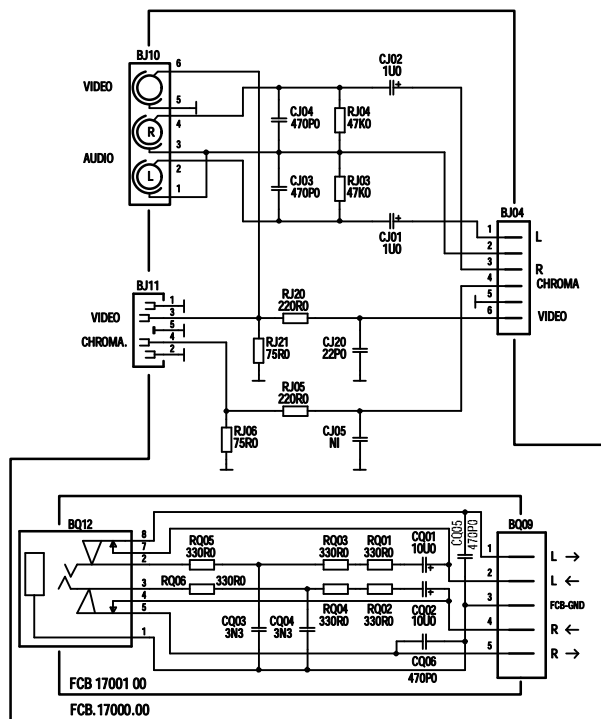
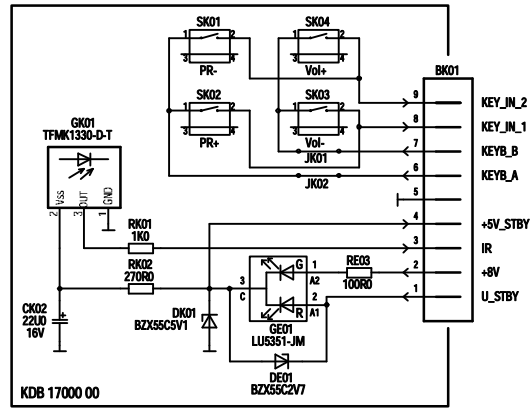
Sicherheitsbauteil
Bei Ersatz nur Originalteil verwenden

Safety Part
When replacing, use original part only

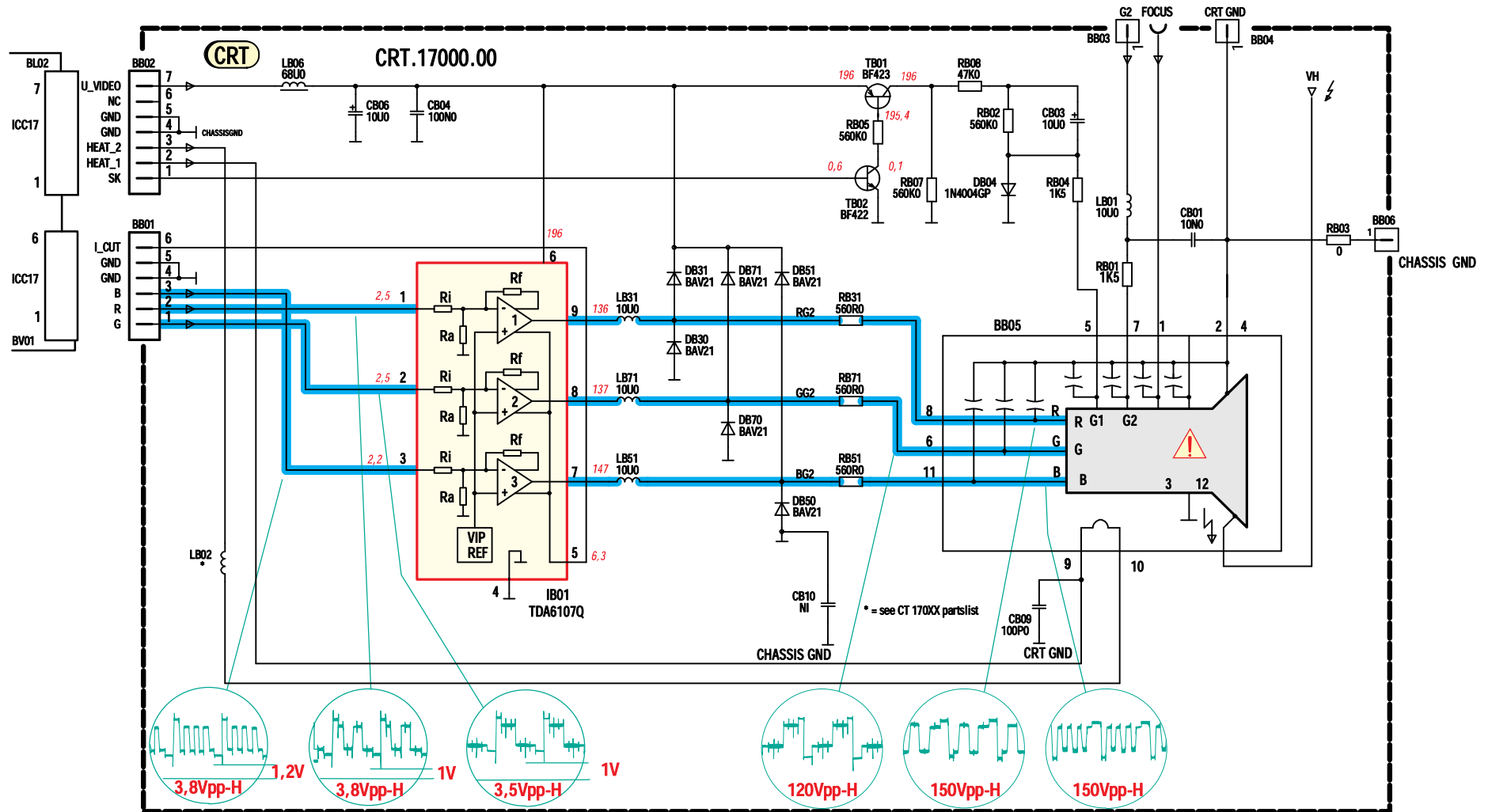
Plaque de sécurité
N'utiliser que les pièces d'origine

MAIN (AP) .17002.00

KEY BOARD AND FRONT CONNECTOR BOARD
MODULE PRISE EN FACADE ET INTERCONNEXION DU CLAVIER
TASTATUR UND FRONT ANSCHLUSSPLATTE - PIASTRA CONNESSIONE
PLACA TECLADO Y CONECTORES FRONTALES



VIDEO AMPLIFIER BOARD - PLATINE AMPLIFICATEURS VIDEO - VIDEOVERSTÄRKERPLATTE - PIASTRA AMPLIFICATORE VIDEO - PLATINA AMPLIFICADOR VIDEO



**PARTS LIST
LISTE PIECES DETACHEES
ERSATZTEILLISTE
LISTA PARTI DI RICAMBIO
LISTA DE PIEZAS DE REPUESTO**

**THOMSON
28WS23U
Chassis ICC17**

MODULES

MAIN	IC17F5RQ056070	
EFC	EFC17000	10601380
FCB	FCB1703	25317800
KB	KB1701	25317560
RIR	IR1700	25317570



GK01	TMFT1330T	10132400
IB01	TDA6107Q	10533940
IF01	TDA8351	20753830
IP20	TS3702CD FLAT	10537330
IP61	TL431ACZ	10538830
IP87	MC7812/CT	46007600
IP95	TDA8139	10044580
IR01	ST92R195 CUT 2.2 FLAT	10588150
IR02	MX27C4000MC-90	10593840
IR03	M24C08MN FLAT	10564350
IS80	TDA7269	10348790
IS100	MSP8410D-B4 (DIE)	10546420
IS200	DPL3519 (DIE)	10546430
IV01	TDA8855H FLAT	10533960
IX01	BA7604N	10539590
ZL11	MP40	△ 10469170
ZL13	MP63	△ 10472270
ZL14	MP50	△ 10457120



IP50	TLP621 GR(D4-LF2 T)	△ 20827900
TB01, TL52, TP21	BF423	16003110
TB02, TL02, 55	BF422	16003090
TF01, TI60, TL31, TP58, 59, 67, 71, 76, 90, TR60, TS01, 81, TV10	BC847B SMD	11070770
TI10, 30, 45	DTC144EK SMD	16007030
TL14	2SC2236Y	16000220
TL32, 80, 82	BC337-40	45001466
TL33	MPS750	16001340
TL34, TP50	BUH516TH16	10401110

TL41	BD241C	16001880
TL42	BC546B	45001866
TL51	SH2G41	48061500
TL59, TP42, 86, TR15	BC857B SMD	30946660
TL71	BC847C SMD	90618810
TL72	RN1401 SMD	10966100
TL81, 83	BC327-40	16000450
TP14, TX15, 45	BC547B	16000890
TP15	BTB06-600C	10259910
TP44	2SA1020Y	16003740
TP57, 75, 82	BCR191 SMD	16006910
TP72, TR20	DTC113ZK SMD	10550750
TR13, 23, 40	BCR141 SMD	16006890



DB04	1N4004	44009009
DB05	1.5KE250A	25353360
DB30, 31, 50, 51, 70, 71, DJ20, DL31	BAV21	44044407
DE01	BZX55C2V7	80444120
DF01	BZW04-48	10351880
DH01	BZX55B33	80442730
DH04, DL12, 32, 33, 72, 74, 75, 82, 83, DP53, DR20, 23, DV19	1N4148	44009209
DI30, 40	BA782S	20542050
DK01, DL09, DP72	BZX55C5V1/ZPD5V1	80444140
DL11, 51	RGP10M	10455320
DL13	RGP30D	10455370
DL14	RGP15G	10272800
DL19, 73, 77, DP24, 40, 42, 52, 54, 56, 57, 58, 60, 61, 62, 63, 67, 70, 85, 89, DR21, 22, 24, DV09	LL4148 SMD	16012450
DL21	BY228	10406470
DL22	BYW76	16009120
DL24, 25, DP12, 41, 46, 47, 48	RGP10G	10459090
DL42	ZMM5,1 SMD	70446740
DL48, DX59	BAV103 SMD	10155030

DL71	ZPD24	44016504
DL80	BZX55C27	60447870
DL81	BZX55C15	20475420
DP01, 02, 03, 04	BYW27-1000	10455390
DP14	BZX55C3V3	30948790
DP16, 17, 18, 19	1N4001	16008160
DP20	ZPD51/BZX55C51/BZX79C51	90578110
DP21	BZX85C39	80444000
DP22	BZX55C5V6/ZPD5V6	44025401
DP43, 45, 50, 87	RGPO2-20	10472330
DP44	BZX55C3V9	80444130
DP59	BZX55C18	11073680
DP80	FUF5406	25353980
DP82	FUF4005	16009580
DP83	BAT42	16007410
DP84, 93	MUR120	10564670
DP94	BZX55C13	70438310
DR05	LL42 SMD	16012530
DS90	BZX55C3V6	50890640
GE01	TLUV5300 LED	11137650



FI10	OFWK6257K FOS	10545030
FI20	OFWK9650M FOS	10545440
FI50	5M74HZ	20338170
QC01	4M433619HZ	10087710
QC02	3M579545HZ	10542190
QS40	18M432HZ	10334670



FI01	40M4HZ	20300950
FI02	31M9HZ	10552630
FI30	77M8HZ	10559760



PL80	47K0 OHM	42006100
PP64	1K0 OHM	70434550

R : RECYCLED PART
: **PIECE RECYCLEE**
: **AUSTAUSCHTEILE**
: **RICAMBIO RICICLATO**
: **MODULO REPROCESADO**

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RB01,04	1K5 OHM 5% 0,50W	10121880
RB06	220R0 OHM 5% 0,25W	△ 15009810
RB13	10R0 OHM 10% 0,50W	15000160
RB31,51,71	560R0 OHM 10% 0,50W	10257590
RC02,RV01	1R0 OHM 5% 0,40W	△ 13060910
RF05	1R21 OHM 1% 0,70W	13010820
RF07	220R0 OHM 1% 0,70W	10233720
RF08	33R0 OHM 10% 0,25W	△ 13062810
RL01	45K3 OHM 1% 0,25W	15018160
RL07	6K19 OHM 1% 0,40W	15020490
RL13	0R47 OHM 5% 2,5W	10537750
RL26	1K0 OHM 10% 0,50W	10393870
RL35	4R7 OHM 5% 0,35W	△ 10226310
RL36,RP10	2R2 OHM 5% 0,25W	△ 15009870
RL43	68K1 OHM 1% 0,70W	10147740
RL44	1R0 OHM 5% 0,50W	△ 10576360
RL80	22R0 OHM 5% 0,25W	△ 35031220
RP04	2R7 OHM 5% 4,50W	10379110
RP15	18R0 OHM 220V PTC	△ 41398800
RP49	0R47 OHM 5% 2,5W	△ 25339900
RP50	10M0 OHM 5% 0,70W	△ 10074320
RP63	432K0 OHM 1% 0,25W	15017950
RS12	18R0 OHM 5% 0,30W	△ 15009660
RS20,87,88	4R7 OHM 5% 0,25W	△ 35032200
RV20	100K0 OHM 1% 0,25W	50883810
RX17	10R0 OHM 5% 0,25W	△ 15009580



CB01	10NOF 3K0V	14036450
CL08	10NOF 5% 400V	14035870
CL12,15,55, CP18,21,42,85, 94	330POF 20% 1K0V	14035270
CL22	27NOF 5% 400V	10349170
CP01	100NOF 20% 275V	△ 10331520
CP03,04	4N7F 1K0V	10058740
CP05	1N5F 10% 1K0V	20338740
CP10	150UOF 385V	43424800
CP11	10NOF 10% 400V	15001080
CP16,17	220NOF 20% 275V	△ 30745000
CP20	220POF 10% 400V	14033000
CP49	1N5F 10% 1K6V	10590570
CP50	1NOF 20% 400V	△ 43106800
CP51	150POF 20% 400V	△ 20298500
CP81	1NOF 10% 500V	10546570



LL05	DSTTDS29	△ 10500980
LL26		△ 50873254
LL32	DRIVER	10518110
LP01		△ 10261530
LP20	DRIVER	△ 10554410
LP44	DRIVER	10561800
LP50	SMT41	△ 10537860

OTHER PARTS AUTRES PIECES SONSTIGE TEILE ALTRE PARTI OTRAS PIEZAS

BB05	CATHODE RAY TUBE SOCKET △ SUPPORT TUBE CATHODIQUE BILDROEHRENFASSUNG SUPPORTO TUBO CATODICO SOPORTE T.R.C	80298800
BJ10	CINCH SOCKET ASSY PLAQUETTE PRISES CINCH CHINCH BUCHSEN-EINHEIT ASSIEME PRESA CINCH PLAQUETA TOMA CINCH	10487650
BJ11	SVHS SOCKET PRISE SVHS S-VHS-BUCHSE PRESA SVHS TOMA SVHS	20392900
BQ12	HEADPHONE SOCKET PRISE CASQUE KOPFHOERERBUCHSE PRESA JACK TOMA JACK	10002260
BX01,02	SCART SOCKET PRISE PERITEL EURO-AV-BUCHSE EUROPRESA NORMALIZZATA EUROCONECTOR	90617260
CH200	ON/OFF SWITCH △ CONTACTEUR MARCHE/ARRET EIN-AUS SCHALTER CONTATTORE ACCESSO/SPENTO CONTACTOR MARCHA/PARADA	10276500
FP01	2A5T TIME-LAG FUSE △ 2A5T FUSIBLE TEMPORISE 2A5T SICHERUNG 2A5T FUSIBLE TEMPORIZATO 2A5T FUSIBLE TEMPORIZADO	10246750
NH01	CTT5010 UHF/VHF TUNER R CTT5010 TETE UHF/VHF CTT5010 UHF/VHF TUNER CTT5010 TUNER UHF/VHF CTT5010 SINTONIZADOR UHF/VHF	20812280
SM01,02,03,04	MICROSWITCH MICRO CONTACTEUR MIKROSCHALTER MICROINTERRUTTORE MICROCONTACTOR	20540300

EQUIPMENT/PRESENTATION EQUIPEMENT/PRESENTATION AUSSTATTUNG/GEHAEUSE PARTI VARIE EQUIPO/PRESENTACION

FRONT PANEL FACADE FRONTPLATTE PANNELLO FRONTALE PANEL FRONTAL	25290990
REAR PANEL DOS RUECKWAND PANNELLO POSTERIORE TAPA POSTERIOR	△ 25350060
LOGO THOMSON LOGO THOMSON SCHRIFTZUG THOMSON MARCHIO THOMSON LOGOTIPO THOMSON	25314150

LOUDSPEAKER GRID LEFT/RIGHT GRILLE HAUT PARLEUR GAUCHE/DROIT LAUTSPRECHERGITTER LINKS/RECHTS GRIGLIA ALTOPARLANTE SINISTRO/DESTRO REJILLA ALTAVOZ IZQUIERDA/DERECHA	25296680
16R OHM 8W LOUDSPEAKER 80X160 16R OHM 8W HAUT PARLEUR 80X160 16R OHM 8W LAUTSPRECHER 80X160 16R OHM 8W ALTOPARLANTE 80X160 16R OHM 8W ALTAVOZ 80X160	10495890
16R OHM 7W LOUDSPEAKER 41X71 16R OHM 7W HAUT PARLEUR 41X71 16R OHM 7W LAUTSPRECHER 41X71 16R OHM 7W ALTOPARLANTE 41X71 16R OHM 7W ALTAVOZ 41X71	25360270
ON/OFF BUTTON TOUCHE MARCHE/ARRET EIN-AUS TASTE TASTO ACCESSO/SPENTO TECLA MARCHA/PARADA	25253290
BUTTON STRIP BARRETTE DE TOUCHES TASTENLEISTE PIATTINA TASTI PLACA DE TECLAS	25331420
POWER SUPPLY LEAD (UK) △ CORDON D'ALIMENTATION (UK) NETZKABEL (UK) CAVO DI ALIMENTAZIONE (UK) CABLE DE ALIMENTACION (UK)	10265730
W66EGV023X015 CATHODE RAY TUBE W66EGV023X015 TUBE CATHODIQUE W66EGV023X015 FARBBILDROEHRE W66EGV023X015 TUBO CATODICO W66EGV023X015 T.R.C	△ 10347840
DEGAUSSING COIL △ BOBINE DE DEMAGNETISATION ENTMAGNETISIERUNGSSPULE BOBINA DI SMAGNETIZZAZIONE BOBINA DE DESIMANTACION	47320157
RCT4100 REMOTE CONTROL RCT4100 TELECOMMANDE RCT4100 FERNBEDIENUNG RCT4100 TELECOMANDO RCT4100 TELEMANDO	10525970
FOLDING BOX EMBALLAGE CARTON KARTON IMBALLAGGIO CARTONE EMBALAJE CARTON	25298840
FITTING DOWNER CALE INFERIEURE POLSTER UNTEN Distanziatore inferiore CALZO INFERIOR	25260890
FITTING UPPER CALE SUPERIEURE POLSTER OBEN Distanziatore superiore CALZO SUPERIOR	25303960

**INSTRUCTIONS
NOTICES
ANLEITUNGEN
ISTRUZIONI
MANUALE**

28WS23U PARTS LIST	35068700
28WS23U LISTE DE PIECES DETACHEES	
28WS23U ERSATZTEILLISTE	
28WS23U LISTA PARTI DI RICAMBIO	
28WS23U LISTA DE PIEZAS DE REPUESTO	
ICC17 SERVICE MANUEL EUROPE	35063330
ICC17 DOC TECHNIQUE EUROPE	
ICC17 TECHNISCHE DOKUMENTATION EUROPE	
ICC17 DOCUMENTAZIONE TECNICA EUROPE	
ICC17 DOCUMENTACION TECNICA EUROPE	
28WS23U UM THOMSON GB	25340570
28WS23U NU THOMSON GB	
28WS23U BA THOMSON GB	
28WS23U IU THOMSON GB	
28WS23U IU THOMSON GB	

28WS23U

3/3

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